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August 1989



The Protection of Cotton, December 1984-February 1989

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations



919837

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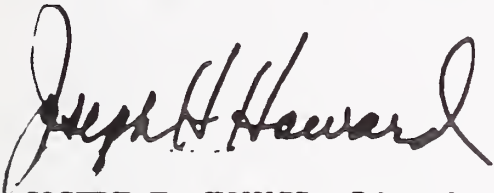
FOREWORD

This, the 23d bibliography in a series jointly sponsored by EPA and NAL, is an update to BLA-37, The Protection of Cotton, which covered the period January 1980-November 1984.

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from U.S. publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



JOSEPH H. HOWARD, Director
National Agricultural Library



DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

The citations in this bibliography are selected from works by U.S. and Canadian authors on The Protection of Cotton, December 1984-February 1989, which updates BLA-37, The Protection of Cotton, 1980-November 1984. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the database family compiled by the National Agricultural Library.

This is the 23d bibliography included in a series jointly sponsored by the National Agricultural Library, U.S. Department of Agriculture (USDA-NAL), and the Science Support Branch, Benefits and Use Division, Office of Pesticide Programs, U.S. Environmental Protection Agency (EPA-OPP). Recent volumes in this series include BLA-69, The Protection of Corn, November 1984-April 1988; BLA-68, The Protection of Root Vegetables; BLA-65, The Protection of Sugarcane and Sugar Beets; BLA-64, Plant Growth Regulators for Higher Plants; and BLA-63, The Protection of Ground and Surface Waters. Plans for the 1988-89 fiscal year include updates for three 1984-85 titles plus seven new titles.

Any comments or questions may be forwarded to the compiler:

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PPGGD. Bilbro, J.D. Abernathy, J. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 231-236. (NAL Call No.: DNAL SB128.P5).

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BCOPB. Schulteis, D.T. Johnston, T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 506. (NAL Call No.: DNAL SB249.N6).

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AKABA. Maples, R. Frizzell, M. Fayetteville : The Station. Bulletin - Arkansas, Agricultural Experiment Station. Aug 1985. (882). 19 p. Includes 21 references. (NAL Call No.: DNAL 100 AR42).

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0300

Development of short and coarse-fibered American Pima cotton for use as parents of interspecific hybrids.

CRPSAY. Percy, R.G. Turcotte, E.L. Madison, Wis. : Crop Science Society of America. Short, coarse-fibered Pima (*Gossypium barbadense* L.) cotton strains may be desirable as parents of interspecific F1 hybrid cottons. This study was conducted to determine if selective advance toward short, coarse-fiber types could be accomplished within a subset of Pima strains while maintaining adequate fiber strength, uniformity, and lint percentage. The fiber selection criteria of extra-long length and fineness used for American Pima cotton were reversed within the subset. Two diallel tests were conducted at Maricopa and Marana, AZ in 1985. Significant (0.01 level) genotype mean squares and general combining ability (GCA) estimates indicated useful variability for shorter, coarser fiber. Comparisons of GCA and specific combining ability (SCA) sums of squares (SS) with the total sums of squares indicated that greater additive genetic variability was available for fiber micronaire ($-/x$ GCA SS/total SS = 0.70) than for fiber length ($-/x$ GCA SS/total SS = 0.34). A single best parent could not be identified based upon GCA effects due to the necessity of simultaneous selection for several traits. Population variances and ranges, estimated from individual plant data from F1 and F2 generations grown in 1985 and 1986, were consistent with genetic segregation in the F2 generation for fiber length and micronaire. Broad-sense heritability estimates ranged from 0.20 to 0.52 for 2.5% span length and from 0.51 to 0.69 for micronaire in the F2 populations. Transgressive segregation was observed in F2 populations for shorter and coarser fiber. Selective advance toward Pima cotton with short, coarse fiber appears possible, but progress is expected to be slow. Crop science. Nov/Dec 1988. v. 28 (6). p. 913-916. Includes references. (NAL Call No.: DNAL 64.8 C883).

0301

Developmental changes in the tannin content of cotton leaves: implications in breeding for pest resistance.

BCOPB. Bell, A.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 31. (NAL Call No.: DNAL SB249.N6).

0302

Developmentally regulated gene sets in cotton embryogenesis.

Dure, L. III. Galau, G.; Chlan, C.; Pyle, J. New York : Alan R. Liss. Cellular and molecular biology of plant stress. Paper presented at the "Symposium on Plant Molecular Biology," April 16-22, 1983, Keystone, Colorado. 1983. v. 12.

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p. 331-342. ill. Includes 9 references. (NAL Call No.: DNAL QH506.U34).

0303

Effect of cotton genotypes on the western bigeyed bug (Heteroptera: Miridae) (*Geocoris pallens*, breeding for disease resistance).
Oscar G. De Lima, J. Leigh, T. F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 898-902. Includes 17 references. (NAL Call No.: 421 J822).

0304

Effect of cotton seedling infection by cotton-leaf crumple virus on subsequent growth and yield.
JEENAI. Butler, G.D. Jr. Brown, J.K.; Henneberry, T.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1986. v. 79 (1). p. 208-211. Includes references. (NAL Call No.: DNAL 421 J822).

0305

Effect of distance on honey bee (*Apis mellifera* L.) dispersal of Pima (*Gossypium barbadense*) and upland (*G. hirsutum*) cotton pollen.
BCOPB. Loper, G.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 119-123. Includes references. (NAL Call No.: DNAL SB249.N6).

0306

Effect of exotic cytoplasm on seed quality of cotton.
CRPSAY. Bourland, F.M. Mahill, J.F. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1985. v. 25 (2). p. 348-350. Includes references. (NAL Call No.: DNAL 64.8 C883).

0307

Effects of environment upon ovule abortion in interspecific F1 hybrids and single species cultivars of cotton.
CRPSAY. Percy, R.G. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1986. v. 26 (5). p. 938-942. Includes references. (NAL Call No.: DNAL 64.8 C883).

0308

Effects of selection for tolerance to trifluralin in cotton.
BCOPB. Bourland, F.M. Mitchell, G.A.; White, B.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 200-202. Includes 11 references. (NAL Call No.: DNAL SB249.N6).

0309

Emasculation and pollination studies on upland cotton flowers.
JAZAA. Wilson, F.D. Stapp, B.R. Tempe, Ariz. : The Academy. Journal of the Arizona-Nevada Academy of Science. 1985. v. 20 (2). p. 107-109. Includes references. (NAL Call No.: DNAL 500 AR44).

0310

An evaluation of three early maturing cotton cultivars for production potential and insect damage in reduced- and conventional-tillage systems.
Roach, S.H. Culp, T.W. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. July 1984. v. 1 (3). p. 249-255. Includes references. (NAL Call No.: DNAL SB599.J69).

0311

Evaluation of T277-2-6 for boll weevil resistance in Texas, 1986.
BCOPB. Walker, J.K. Smith, C.W.; Reina, J.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 337-340. Includes references. (NAL Call No.: DNAL SB249.N6).

0312

Field performance of some new cotton strains with resistance to *Heliothis* spp.
BCOPB. Jones, J.E. Burris, E.; Caldwell, W.D.; Marshall, J.G.; Dickson, J.I.; Clower, D.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 94-96. Includes references. (NAL Call No.: DNAL SB249.N6).

0313

Gene sets active in cottonseed embryogenesis.
Dure, L. III. Chlan, C.A.; Baker, J.C.; Galau, G.A. New York : Alan R. Liss. UCLA symposia on molecular and cellular biology. Paper presented at the "Symposium on Molecular Biology of Development," April 1-7, 1984, Steamboat

Springs, Colorado. 1984. v. 19. p. 591-599. ill. Includes 10 references. (NAL Call No.: DNAL QH506.U34).

0314

Genetic analysis of a white mutant in cotton.

CRPSAY. Kohel, R.J. Madison, Wis. : Crop Science Society of America. A cotton, *Gossypium hirsutum* L., mutant with a new phenotype was discovered in the developmental breeding nursery at College Station, TX in which newly formed leaves turned white and subsequently the seedlings died. Seedlings with white leaves were grown under conditions of low light and a seedling greened and developed into a mature plant that provided the basis for further study. Genetic analysis revealed that the expression was controlled by duplicate recessive genes. The aberrant type was called white mutant and assigned the gene symbols wht1wht2. Linkage analysis revealed no detectable associations with the 14 genetic markers of multiple makers T582 and T586. Crop science. Nov/Dec 1988. v. 28 (6). p. 1016-1018. Includes references. (NAL Call No.: DNAL 64.8 C883).

0315

Growth analysis of cottons with differing maturities.

AGJDAT. Kohel, R.J. Benedict, C.R. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1987. v. 79 (1). p. 31-34. Includes references. (NAL Call No.: DNAL 4 AM34P).

0316

High-performance liquid chromatographic determination of sesquiterpenoid stress metabolites in *Verticillium dahliae* infected cotton stele.

JAFCAU. Lee, S.M. Garas, N.A.; Waiss, A.C. Jr. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1986. v. 34 (3). p. 490-493. Includes references. (NAL Call No.: DNAL 381 J8223).

0317

Influence of cultivar height on competitiveness of cotton (*Gossypium hirsutum*) with johnsongrass (*Sorghum halepense*).

WEESA6. Bridges, D.C. Chandler, J.M. Champaign, Ill. : Weed Science Society of America. Research was conducted from 1983 through 1986 to compare the competitiveness of three cotton cultivars of different height with johnsongrass. Cultivars evaluated were: '1209-619-7', 'TAMCOT SP37-H', and 'Stoneville 213', which had an average height at maturity of 66, 122, and 168 cm, respectively. Each cultivar was grown with johnsongrass densities of 0, 4, and 6 plants/6 m of row with a 1-m row

spacing. Johnsongrass biomass data confirmed that all three cultivars did compete with johnsongrass, but regression analyses using cultivar as a covariate revealed no difference in the competitiveness of the three cultivars. Weed science. Sept 1988. v. 36 (5). p. 616-620. Includes references. (NAL Call No.: DNAL 79.8 W41).

0318

Inheritance of a second virescent mutant in American Pima cotton.

CRPSAY. Turcotte, E.L. Percy, R.G. Madison, Wis. : Crop Science Society of America. Eighteen virescent mutants have been described in allotetraploid cotton (*Gossypium* sp.); however, only one originated in *G. barbadense* L. These mutants are useful as seedling and mature plant markers for studies of genetic systems and photosynthesis. A second virescent mutant was found in a *G. barbadense* (Pima) breeding nursery at Maricopa, AZ in 1984. Experiments indicated that it was under genetic control and was a new phenotype in Pima cotton. The objectives of the present study were to determine the inheritance of this new virescent trait and its linkage and allelic relationships with other *Gossypium* mutants. The genetic studies showed that the virescent trait is inherited as a monogenic recessive, and that it is not linked with 22 *Gossypium* mutant genes or allelic with v7 in *G. barbadense* of v1 and v2 in *G. hirsutum* L. The name virescent-21 and the gene symbol v21 are assigned to the new Pima plant color trait. Crop science. Nov/Dec 1988. v. 28 (6). p. 1018-1019. Includes references. (NAL Call No.: DNAL 64.8 C883).

0319

Lower insecticide use associated with a pink-bollworm resistant cotton.

BCOPB. Wilson, F.D. Flint, H.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 560-561. (NAL Call No.: DNAL SB249.N6).

0320

Natural occurrence of immature cottonseed in six Midsouth cultivars.

BCOPB. Rayburn, S.T. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 165-166. Includes references. (NAL Call No.: DNAL SB249.N6).

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0321

Normal vs. Okra leaf yield interactions in cotton. II. Analysis of vegetative and reproductive growth.

CRPSAY. Wells, R. Meredith, W.R. Jr. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 223-228. Includes references. (NAL Call No.: DNAL 64.8 C883).

0322

Performance of cottons when infested with tobacco budworm.

CRPSAY. Jenkins, J.N. Parrott, W.L.; McCarty, J.C.; Dearing, L. Madison, Wis. : Crop Science Society of America. Crop science. Jan/Feb 1986. v. 26 (1). p. 93-95. Includes 9 references. (NAL Call No.: DNAL 64.8 C883).

0323

Phenotype modification in cotton for control of verticillium wilt through dense plant population culture.

PLDRA. Wilhelm, S. Sagen, J.E.; Tietz, H. St. Paul, Minn. : American Phytopathological Society. Plant disease. Apr 1985. v. 69 (4). p. 283-288. ill. Includes 17 references. (NAL Call No.: DNAL 1.9 P69P).

0324

Pink bollworm (Lepidoptera: Gelechiidae) egg hatch, larval success, and pupal and adult survival on okra- and normal-leaf cotton.

JEENAI. Wilson, F.D. George, B.W.; Fry, K.E.; Szaro, J.L.; Hennenberry, T.J.; Clayton, T.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1986. v. 79 (6). p. 1671-1675. Includes references. (NAL Call No.: DNAL 421 J822).

0325

Pink bollworm resistance, lint yield, and earliness of cotton isolines in a resistant genetic background.

CRPSAY. Wilson, F.D. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1987. v. 27 (5). p. 957-960. Includes references. (NAL Call No.: DNAL 64.8 C883).

0326

Pink bollworm resistance, lint yield, and lint yield components of okra-leaf cotton in different genetic backgrounds.

CRPSAY. Wilson, F.D. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1986. v. 26 (6). p. 1164-1167. Includes 17 references. (NAL Call No.: DNAL 64.8 C883).

0327

Plant pubescence, genetic background, and seasonal effects on agronomic and fiber properties of upland cotton.

CRPSAY. Wilson, F.D. Shepherd, R.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1987. v. 27 (5). p. 865-868. Includes references. (NAL Call No.: DNAL 64.8 C883).

0328

Pollen selection for heat tolerance in cotton.

CRPSAY. Rodriguez-Garay, B. Barrow, J.R. Madison, Wis. : Crop Science Society of America. Pollen from cotton (*Gossypium hirsutum* L.) cultivars, which demonstrate heat tolerance in the field, generally express higher fertility after heat treatment than pollen from heat sensitive cultivars. The objective of this study was to determine, if pollen could be heat treated to eliminate all but those grains with genetic heat tolerance. Genes for heat tolerance could then be selected in the pollen and effectively transferred by the backcross method. A highly heat tolerant breeding line, 7456, of *G. barbadense* L. was used as the donor parent and Paymaster 404', a heat sensitive cultivar, as the recurrent parent and all crosses were made with pollen treated 15 h at 35 degrees C to generate F1, F2 and first and second backcross populations. Increased heat tolerance, as measured by fertile pollen after heat treatment, was observed in plants from all populations. Similar heat tolerance patterns were observed in the parents, F1, F2, and first backcross populations, when plants were grown to maturity at high temperatures in a growth chamber. Pollen selection through heat treatment allows screening for large numbers of genetic combinations in pollen and may be a valuable method of breeding for heat tolerance and possibly other stress tolerance characteristics. Crop science. Sept/Oct 1988. v. 28 (5). p. 857-858. Includes references. (NAL Call No.: DNAL 64.8 C883).

0329

Preference and nonpreference of boll weevils to selected cotton.

BCOPB. Jones, J.E. Dickson, J.I.; Beasley, J.P. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 98-102. Includes references. (NAL Call No.: DNAL SB249.N6).

0330

Preference of boll weevils and tobacco budworms for five species of *Gossypium*.

BCOPB. Benedict, J.H. Treacy, M.F.; Altman, D.W.; Schmidt, K.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 92-93. Includes

references. (NAL Call No.: DNAL SB249.N6).

0331

Progress in developing high tannin cotton for Heliothis resistance.

BCOPB. Altamarino, T.P. Smith, C.W.; Love, J.; Bell, A.A.; Stipanovic, R.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 553. (NAL Call No.: DNAL SB249.N6).

0332

Qualitative variations in the volatile terpenes produced by selected Texas race stocks of Gossypium hirsutum.

BCOPB. Bell, A.A. Stipanovic, R.D.; Percival, A.E.; Williams, H.U. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 553-554. (NAL Call No.: DNAL SB249.N6).

0333

Registration of 'Acala 1517-SR2' cotton.

CRPSAY. Malm, N.R. Barnes, C.E.; Roberts, C.L.; Davis, D.D. Madison, Wis. : Crop Science Society of America. Crop science. Jan/Feb 1987. v. 27 (1). p. 149. Includes references. (NAL Call No.: DNAL 64.8 C883).

0334

Registration of Miscot T8-27 cotton germplasm.

CRPSAY. Bourland, F.M. Bridge, R.R. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1988. v. 28 (6). p. 1035. Includes references. (NAL Call No.: DNAL 64.8 C883).

0335

Registration of (Tancot CAB-CS) upland cotton.

CRPSAY. Bird, L.S. El-Zik, K.M.; Thaxton, P.M. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 384-385. Includes references. (NAL Call No.: DNAL 64.8 C883).

0336

Registration of three noncommercial germplasm lines of upland cotton tolerant to tobacco budworm.

CRPSAY. Jenkins, J.N. Parrott, W.L.; McCarty, J.C. Jr.; Shepherd, R.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1988. v. 28 (5). p. 869. Includes references. (NAL Call No.: DNAL 64.8 C883).

0337

Registration of three noncommercial germplasm lines of upland cotton tolerant to tobacco budworm and tarnished plant bug.

CRPSAY. Jenkins, J.N. Parrott, W.L.; McCarty, J.C. Jr.; Shepherd, R.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1988. v. 28 (5). p. 869-870. Includes references. (NAL Call No.: DNAL 64.8 C883).

0338

Registration of twelve nonphotoperiodic lines with root-knot nematode resistant primitive cotton germplasm.

CRPSAY. Shepherd, R.L. McCarty, J.C. Jr.; Jenkins, J.N.; Parrott, W.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1988. v. 28 (5). p. 868-869. Includes references. (NAL Call No.: DNAL 64.8 C883).

0339

Registration of two noncommercial germplasm lines of upland cotton tolerant to tobacco budworm.

CRPSAY. Jenkins, J.N. Parrott, W.L.; McCarty, J.C. Jr.; Shepherd, R.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1988. v. 28 (5). p. 870. Includes references. (NAL Call No.: DNAL 64.8 C883).

0340

Resistance in cotton to seed and seedling pathogens and its relationship to stand establishment and vigor.

BCOPB. El-Zik, K.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 16-17. (NAL Call No.: DNAL SB249.N6).

0341

Resistance of cotton varieties to Heliothis zea.

SENTD. Mshiu, E.P. Young, J.H.; Willson, L.J.; Mussett, K.S. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Sept 1987. v. 12

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(3). p. 183-189. Includes references. (NAL Call No.: DNAL QL461.S65).

0342

Response of advanced breeding lines of cotton to early season tarnished plant bug injury.
RRMSD. Kitten, W.F. Bridge, R.R.; Laster, M.L. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Feb 1987. v. 12 (2). 5 p. Includes references. (NAL Call No.: DNAL S79.E37).

0343

Response of cotton varieties grown in a short season to ethephon and thidiazuron in the arid southwest.
BCOPB. Bariola, L.A. Chu, C.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 302-303. Includes references. (NAL Call No.: DNAL SB249.N6).

0344

Response of nectariless cotton genotypes to cotton fleahopper (Heteroptera: Miridae) infestation.
JEENAI. Lidell, M.C. Niles, G.A.; Walker, J.K. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1372-1376. Includes references. (NAL Call No.: DNAL 421 J822).

0345

Root cation exchange capacity of cotton cultivars in relation to aluminum toxicity.
JPNUDS. Kennedy, C.W. Smith, W.C. Jr.; Ba, M.T. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Aug 1986. v. 9 (8). p. 1123-1133. Includes 16 references. (NAL Call No.: DNAL QK867.J67).

0346

Root-knot nematode effect on nine cotton cultivars in Mississippi.
CRPSAY. Minton, E.B. Meredith, W.R. Jr. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1987. v. 27 (5). p. 1001-1004. Includes references. (NAL Call No.: DNAL 64.8 C883).

0347

Seed-oil content of glanded and glandless cottons.
JJASDH. Silva Ramos, L.C. da. Kohel, R.J. Champaign, Ill. : The Society. Journal of the American Oil Chemists' Society. Sept 1987. v. 64 (9). p. 1337-1340. Includes references. (NAL Call No.: DNAL 307.8 J82).

0348

Selective mortality in field trials between strains of *Heliothis armigera* (Lepidoptera: Noctuidae) resistant and susceptible to pyrethroids: functional dominance of resistance and age class.
JEENAI. Daly, J.C. Fisk, J.H.; Forrester, N.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1988. v. 81 (4). p. 1000-1007. Includes references. (NAL Call No.: DNAL 421 J822).

0349

Smoothleaf and hirsute cottons: response to insect pests and yield in Arizona.
JEENAI. Wilson, F.D. George, B.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1986. v. 79 (1). p. 229-232. Includes references. (NAL Call No.: DNAL 421 J822).

0350

Structural and physiological studies of a plastome cotton mutant with slow sorting out.
JOHEA. Lax, A.R. Vaughn, K.C.; Duke, S.O.; Endrizzi, J.E. Washington, D.C. : American Genetic Association. The Journal of heredity. May/June 1987. v. 78 (3). p. 147-152. ill. Includes references. (NAL Call No.: DNAL 442.8 AM3).

0351

Survival of the cotton industry in the Texas Coastal Bend, 1970-85.
BCOPB. Anderson, D.H. Parker, R.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 108-110. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

0352

Susceptibility of early season cotton floral bud types to thrips (Thysanoptera: Thripidae) damage.

JEENAI. Terry, L.I. Barstow, B.B. Lanham, Md. : Entomological Society of America. Journal of economic entomology. Dec 1988. v. 81 (6). p. 1785-1791. Includes references. (NAL Call No.: DNAL 421 J822).

0353

Tamcot CAB-CS, a multi-adversity resistant cotton variety.

College Station, Tex. : The Station. Leaflet L - Texas Agricultural Experiment Station, Texas A & M University System. June 1985. (2138). 9 p. (NAL Call No.: DNAL 275.29 T313).

0354

Tannin and gossypol levels of multi-adversity resistant (MAR) and non-MAR cottons.

BCOPB. Thaxton, P.M. El-Zik, K.M.; Bell, A.A.; Tribble, G.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 554. (NAL Call No.: DNAL SB249.N6).

0355

Variations in stickiness of variety test cottons--San Joaquin Valley, California, 1986.

BCOPB. Perkins, H.H. Jr. Bassett, D.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 135-136. Includes references. (NAL Call No.: DNAL SB249.N6).

0356

Volatile monoterpenes collected from the air surrounding flower buds of seven cotton genotypes.

CRPSAY. Chang, J.F. Benedict, J.H.; Payne, T.L.; Camp, B.J. Madison, Wis. : Crop Science Society of America. Some volatile monoterpenes released by cotton (*Gossypium hirsutum* L.) are olfactory cues to boll weevils (*Anthonomus grandis* Boheman) and some parasites. However, literature examined showed no studies that described or compared the monoterpene odor of different cotton genotypes at different stages of growth or in different environments. The objective of our study was to determine the monoterpene composition of the air surrounding flower buds of five cotton genotypes ('CAMD-E', 'SP-37', STV-213', STV-213 glandless, RDC-102 glandless, HG-1, and LEB0) grown under normal agronomic practices at College Station and

Corpus Christi, TX. The monoterpenes were collected from the air surrounding excised buds of each genotype with a Porapak Q effluvial collection system. The quantity of each monoterpene was determined with capillary column gas chromatography utilizing purified standards. The most abundant monoterpenes collected were alpha-pinene, beta-pinene, beta-myrcene, d-limonene, and beta-ocimene. The total quantity of these five monoterpenes was greater for buds of glanded genotypes than for buds of glandless genotypes. Ratios of the five monoterpenes provided a relatively characteristic chemical profile for each genotype. Quantities and ratios of the five monoterpenes collected from buds were dynamic in that they fluctuated with the age of the cotton plant and the environment in which the plants were grown. These results indicate that the five monoterpenes composing, in part, the odor of commercial upland cotton, may differ spatially, temporally, and genetically. This suggests that researchers attempting to identify attractive plant odors should simultaneously compare insect responses and plant odor composition. Crop science. July/Aug 1988. v. 28 (4). p. 685-688. Includes references. (NAL Call No.: DNAL 64.8 C883).

PLANT ECOLOGY

0357

Effects of stress conditions on the cotton plant in Arizona /by C.J. King.

King, C. J. Washington : U.S. Dept. of Agriculture, 1933. Caption title. 35 p. : ill. ; 23 cm. Literature cited: p. 33-34. (NAL Call No.: DNAL 1 Ag84Te no.392).

0358

Field-degradation effects on cotton fiber and yarn quality (by James M. Williams, Jr.). -.

Williams, James M., 1914-. Washington, D.C. Agricultural Research Service, U.S. Dept. of Agriculture 1970. ii, 18 p. : ill. --. Bibliography: p. 17-18. (NAL Call No.: Fiche S-69 no.1417).

0359

Inhibition of cotton seedling root growth by rhizosphere volatiles.

BCOPB. Bradow, J.M. Connick, W.J. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 90-91. Includes references. (NAL Call No.: DNAL SB249.N6).

0360

Penetration of radiation into cotton crop canopies.

CRPSAY. Marani, A. Ephrath, J. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1985. v. 25 (2). p. 309-313. ill. Includes 21 references. (NAL Call No.: DNAL 64.8 C883).

PLANT STRUCTURE

0361

Anatomical differences in cotton related to drought tolerance.

AKFRAC. Hampton, R.E. Oosterhuis, D.M.; Stewart, J.M.; Kim, K.S. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1987. v. 36 (6). p. 4. Includes references. (NAL Call No.: DNAL 100 AR42F).

0362

Canopy photosynthesis and its relationship to plant productivity in near-isogenic cotton lines differing in leaf morphology.

PLPHA. Wells, R. Meredith, W.R. Jr.; Williford, J.R. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Nov 1986. v. 82 (3). p. 635-640. Includes references. (NAL Call No.: DNAL 450 P692).

0363

Cotton boll diameter as an indicator of age (Anthonomus grandis, insecticide use decisions).

Baldwin, J.L. Walker, J.K.; Benedict, J.H.; Armstrong, A.A.; Niles, G.A. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. June 1984. v.9 (2). p. 198-211. ill. Includes references. (NAL Call No.: QL461.S65).

0364

Effects of NaCl and CaCl2 on cell enlargement and cell production in cotton roots.

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PLPHA. Suttle, J.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Jan 1988. v. 86 (1). p. 241-245. Includes references. (NAL Call No.: DNAL 450 P692).

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Diurnal fluctuations in cotton leaf carbon exchange rate, sucrose synthesizing enzymes, leaf carbohydrate content and carbon export.
Hendrix, D.L. Huber, S.C. New York : Alan R. Liss. Plant biology. In the series analytic: Phloem Transport / edited by J. Cronshaw, W.J. Lucas and R.T. Giaquinta. Proceedings of an International Conference, August 18-23, 1985, Asilomar, California. 1986. v. 1. p. 369-373. Includes references. (NAL Call No.: DNAL QH301.P535).

0442

Diurnal fluctuations in cotton leaf carbon export, carbohydrate content, and sucrose synthesizing enzymes.
PLPHA. Hendrix, D.L. Huber, S.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1986. v. 81 (2). p. 584-586. Includes 22 references. (NAL Call No.: DNAL 450 P692).

0443

Drought tolerance and osmotic adjustment.
Oosterhuis, D.M. Wullschlegel, S.D. Fayetteville, Ark. : The Station. Special report - University of Arkansas, Agricultural Experiment Station. Paper presented at the Conference on "Research at Managing the Cotton Plant," February 16, 1988, Helena, Arkansas. June 1988. (132). p. 33-36. Includes references. (NAL Call No.: DNAL 100 AR42SP).

0444

Dynamics and impact of cotton fruit abscission and survival.
EVETEX. Stewart, S.D. Sterling, W.L. College Park, Md. : Entomological Society of America. Cotton fruit from a given location on the plant were assigned to cohorts. The quantity and causes of fruit abscission in each cohort were monitored in three management systems. The proportion of fruit abscission caused by insect pests was largest in the early-season cohorts, whereas physical stresses caused increasingly more fruit abortion in later cohorts. Plants tolerate insect-induced fruit abortion by retaining more of the surviving fruit within the same cohort. When a cohort was severely injured, fruit survivorship was increased in subsequent cohorts to compensate for the loss. Fruit production, abscission, and retention were normally distributed, and the patterns were consistent enough to suggest that a cohort technique may be a useful modelling approach. Environmental entomology. Aug 1988. v. 17 (4). p. 629-635. Includes references. (NAL Call No.: DNAL QL461.E532).

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Early events in fiber cell development.
BCDPB. Davidonis, G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 86. (NAL Call No.: DNAL SB249.N6).

0446

Early season factors and their impact on emergence, growth, and yield.

BCOPB. Kerby, T.A. Johnson, S.; Keeley, M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 14-16. (NAL Call No.: DNAL SB249.N6).

0447

The effect of boron concentration on cotton ovule and fiber growth in vitro and incorporation of UDP 14C glucose and 14C glucose into fiber glucans and lipids.

BCOPB. Dugger, W.M. Palmer, R.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 82-84. Includes 5 references. (NAL Call No.: DNAL SB249.N6).

0448

Effect of boron on the incorporation of glucose by cotton fibers grown in vitro.

JPNUDS. Dugger, W.M. Palmer, R.L. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. 1985. v. 8 (4). p. 311-325. Includes 25 references. (NAL Call No.: DNAL QK867.J67).

0449

Effect of distance on honey bee (*Apis mellifera* L.) dispersal of Pima (*Gossypium barbadense*) and upland (*G. hirsutum*) cotton pollen.

BCOPB. Loper, G.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 119-123. Includes references. (NAL Call No.: DNAL SB249.N6).

0450

Effect of early season square removal on three leaf types of cotton.

CRPSAY. Kennedy, C.W. Smith, W.C.; Jones, J.E. Madison, Wis. : Crop Science Society of America. Crop science. Jan/Feb 1986. v. 26 (1). p. 139-145. Includes 27 references. (NAL Call No.: DNAL 64.8 C883).

0451

Effect of mepiquat chloride and nitrogen levels on yield, growth characteristics, and elemental composition of cotton.

JPGRDI. Heilman, M.D. New York, N.Y. : Springer. Journal of plant growth regulation. 1985. v. 4 (1). p. 41-47. Includes references. (NAL Call No.: DNAL QK745.J6).

0452

Effect of particulates (dust) on cotton growth, photosynthesis, and respiration.

AGUOAT. Armbrust, D.V. Madison, Wis. : American Society of Agronomy. Agronomy journal. Nov/Dec 1986. v. 78 (6). p. 1078-1081. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Effect of planting date on reproductive development and yield of upland and pima cultivars.

BCOPB. Waissman, N. Mitchell, J.; Telles, R.; Pedregon, L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 60-62. Includes 8 references. (NAL Call No.: DNAL SB249.N6).

0454

The effect of salinity on parameters of potassium and nitrate uptake of cotton.

CSOSA2. Silberbush, M. Ben-Asher, J. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. 1987. v. 18 (1). p. 65-81. Includes references. (NAL Call No.: DNAL S590.C63).

0455

Effect of soil temperature and moisture on cotton germination under arid and semi-arid conditions.

Gonzales, R.E. DeMooy, C.J.; Olsen, J. Fort Collins, Colo. : Water Management Research Project, Colorado State University. Improving irrigation water management on farms : annual technical report. June 1979. June 1979. p. 209-224. ill. (NAL Call No.: TC801.I62).

0456

The effect of starter fertilizers on cotton production in legume residues.

CSOSA2. Rickerl, D.H. Gordon, W.B.; Touchton, J.T.; Curl, E.A. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Nov 1987. v. 18 (11). p.

1281-1302. ill. Includes references. (NAL Call No.: DNAL S590.C63).

0457

The effect of the growth regulators Pix and IBA on cotton root growth.

AKFRAC. Urwiler, M.J. Oosterhuis, D.M. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1986. v. 35 (6). p. 5. (NAL Call No.: DNAL 100 AR42F).

0458

Effect of water stress on canopy senescence and carbon exchange rates in cotton.

CRPSAY. Marani, A. Baker, D.N.; Reddy, V.R.; McKinion, J.M. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1985. v. 25 (5). p. 798-802. Includes 25 references. (NAL Call No.: DNAL 64.8 C883).

0459

Effect of 2-diethylaminoethyl-3,4-dichlorophenylether (DCPTA) on cotton plant (*Gossypium hirsutum*) growth and phenology.

Gausman, H.W. Burd, J.D.; Quisenberry, J.; Yokoyama, H.; Dilbeck, R.; Benedict, C.R. New York, N.Y. : Nature Pub. Co. Bio/technology. Mar 1985. v. 3 (3). p. 255-257. Includes 10 references. (NAL Call No.: DNAL QH442.B5).

0460

Effects of controlled-traffic on soil physical properties and crop rooting.

AGJOAT. Gerik, T.J. Morrison, J.E. Jr.; Chichester, F.W. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1987. v. 79 (3). p. 434-438. Includes references. (NAL Call No.: DNAL 4 AM34P).

0461

Effects of drought on primary photosynthetic processes of cotton leaves.

PLPHA. Genty, B. Briantais, J.M.; Da Silva, J.B.V. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1987. v. 83 (2). p. 360-364. Includes references. (NAL Call No.: DNAL 450 P692).

0462

Effects of Impact on the growth and yield of cotton.

BCOPB. Schulteis, D.T. Johnston, T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 506. (NAL Call No.: DNAL SB249.N6).

0463

Effects of N fertility on plant water relations and stomatal responses to water stress in irrigated cotton.

CRPSAY. Radin, J.W. Mauney, J.R.; Guinn, G. Madison, Wis. : Crop Science Society of America. Crop science. Jan 1985. v. 25 (1). p. 110-115. ill. Includes 19 references. (NAL Call No.: DNAL 64.8 C883).

0464

Effects of NaCl and CaCl2 on cell enlargement and cell production in cotton roots.

PLPHA. Kurth, E. Cramer, G.R.; Lauchli, A.; Epstein, E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1986. v. 82 (4). p. 1102-1106. Includes references. (NAL Call No.: DNAL 450 P692).

0465

Effects of NaCl and CaCl2 on ion activities in complex nutrient solutions and root growth of cotton.

PLPHA. Cramer, G.R. Lauchli, A.; Epstein, E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. July 1986. v. 81 (3). p. 792-797. Includes 25 references. (NAL Call No.: DNAL 450 P692).

0466

Effects of PIX, a plant growth regulator, on allelochemical content of cotton and growth of tobacco budworm larvae (Lepidoptera: Noctuidae).

JEENAI. Mulrooney, J.E. Hedin, P.A.; Parrott, W.L.; Jenkins, J.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1100-1104. Includes references. (NAL Call No.: DNAL 421 J822).

0467

Effects of soil conditioners on emergence and growth of tomato, cotton, and lettuce seedlings.

SOSCAK. Wallace, A. Wallace, G.A. Baltimore, Md. : Williams & Wilkins. Soil science. May 1986. v. 141 (5). p. 313-316. Includes references. (NAL Call No.: DNAL 56.8 S03).

0468

Effects of temperature and CO₂ concentration on the growth of cotton (*Gossypium hirsutum*), spurred anoda, (*Anoda cristata*), and velvetleaf (*Abutilon theophrasti*).

WEESA6. Patterson, D.T. Highsmith, M.T.; Flint, E.P. Champaign, Ill. : Weed Science Society of America. Cotton, spurred anoda, and velvetleaf were grown in controlled-environment chambers at day/night temperatures of 32/33 or 26/17 C and CO₂ concentrations of 350 or 700 ppm. After 5 weeks, CO₂ enrichment to 700 ppm increased dry matter accumulation by 38, 26, and 29% in cotton, spurred anoda, and velvetleaf, respectively, at 26/17 C and by 61, 41, and 29% at 32/23 C. Increases in leaf weight accounted for over 80% of the increase in total plant weight in cotton and spurred anoda in both temperature regimes. Leaf area was not increased by CO₂ enrichment. The observed increases in dry matter production with CO₂ enrichment were caused by increased net assimilation rate. In a second experiment, plants were grown at 350 ppm CO₂ and 29/23 C day/night for 17 days before exposure to 700 ppm CO₂ at 26/17 C for 1 week. Short-term exposure to high CO₂ significantly increased net assimilation rate, dry matter production, total dry weight, leaf dry weight, and specific leaf weight in comparison with plants maintained at 350 ppm CO₂ at 26/17 C. Increases in leaf weight in response to short-term CO₂ enrichment accounted for 100, 87, and 68% of the observed increase in total plant dry weight of cotton, spurred anoda, and velvetleaf, respectively. Comparisons among the species showed that CO₂ enrichment decreased the weed/crop ratio for total dry weight, possibly indicating a potential competitive advantage for cotton under elevated CO₂, even at suboptimum temperatures. Weed science. Nov 1988. v. 36 (6). p. 751-757. Includes references. (NAL Call No.: DNAL 79.8 W41).

0469

Effects of trifluralin and pendimethalin on cotton emergence and seedling characteristics.

BCOPB. Mitchell, G.A. Bourland, F.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 64-66. Includes 14 references. (NAL Call No.: DNAL SB249.N6).

0470

Effects of varying nitrogen fertility levels on the concentration of nutrients in cotton leaf blades.

BCOPB. Zelinski, L.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 401-402. (NAL Call No.: DNAL SB249.N6).

0471

Effects of water stress on the organic acid and carbohydrate compositions of cotton plants.

PLPHA. Timpa, J.D. Burke, J.J.; Quisenberry, J.E.; Wendt, C.W. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Nov 1986. v. 82 (3). p. 724-728. Includes references. (NAL Call No.: DNAL 450 P692).

0472

Elicitor stimulation of the defense response in cultured plant cells monitored by fluorescent dyes.

ABBIA. Low, P.S. Heinsteins, P.F. Duluth, Minn. : Academic Press. Archives of biochemistry and biophysics. Sept 1986. v. 249 (2). p. 472-479. Includes references. (NAL Call No.: DNAL 381 AR2).

0473

Emasculation and pollination studies on upland cotton flowers.

JAZAA. Wilson, F.D. Stapp, B.R. Tempe, Ariz. : The Academy. Journal of the Arizona-Nevada Academy of Science. 1985. v. 20 (2). p. 107-109. Includes references. (NAL Call No.: DNAL 500 AR44).

0474

Enhancement of cotton seedling emergence and protection from pathogens by seed pre-germination.

AKFRAC. Nelson, E.B. Courtney, M.L. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. May/June 1987. v. 36 (3). p. 8. (NAL Call No.: DNAL 100 AR42F).

0475

EPTC metabolism in corn, cotton, and soybean: identification of a novel metabolite derived from the metabolism of a glutathione conjugate.
JAFCAU. Lamoureux, G.L. Rusness, D.G.
Washington, D.C. : American Chemical Society.
Journal of agricultural and food chemistry.
Jan/Feb 1987. v. 35 (1). p. 1-7. Includes references. (NAL Call No.: DNAL 381 J8223).

0476

Establishment of embryogenic suspension cultures of a wild relative of cotton (*Gossypium klotzschianum* Anderss.).
ITCSA. Finer, J.U. Reilley, A.A.; Smith, R.H.
Gaithersburg, Md. : The Association. In vitro cellular & developmental biology : journal of the Tissue Culture Association. Oct 1987. v. 23 (10). p. 717-722. ill. Includes references. (NAL Call No.: DNAL QH585.A1I58).

0477

Estimation of aerodynamic resistance and evapotranspiration for partial cover crops.
Hatfield, J.L. Wanjura, D.F. Boston : The Society, 1985. 17th Conference on Agricultural and Forest Meteorology and seventh Conference on Biometeorology and Aerobiology, May 21-24, 1985, Scottsdale, Ariz. : preprint volume / sponsored by the American Meteorological Society. p. 21-22. (NAL Call No.: DNAL S600.2.C6 1985).

0478

Evaluation of cotton canopy temperature to detect crop water stress (*Gossypium hirsutum*, California).
Howell, T.A. Hatfield, J.L.; Yamada, H.; Davis, K.R. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2532). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0479

Evaluation of cotton canopy temperature to detect crop water stress (which results from both soil water deficits (matric potential stress) and soil water salinity (osmotic potential stress)).
Howell, T.A. Hatfield, J.L.; Yamada, H.; Davis, K.R. St. Joseph, Mich. : The Society.
Transactions of the ASAE - American Society of

Agricultural Engineers. Jan/Feb 1984. v. 27 (1). p. 84-88. Includes references. (NAL Call No.: 290.9 AM32T).

0480

Factors affecting ice nucleation in plant tissues.
PLPHA. Ashworth, E.N. Davis, G.A.; Anderson, J.A. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1985. v. 79 (4). p. 1033-1037. Includes 19 references. (NAL Call No.: DNAL 450 P692).

0481

Feeding the crop: plant nutrition in relation to growth and fruiting.
Kerby, T.A. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. 1987. p. 7-8. (NAL Call No.: DNAL SB245.B42).

0482

Field calibration of the phytogram index of water status in drip irrigated cotton.
Gensler, W. St. Joseph, Mich. : American Society of Agricultural Engineers, c1985. Drip/trickle irrigation in action : proceedings of the Third International Drip/Trickle Irrigation Congress, November 18-21, 1985, Centre Plaza Holiday Inn, Fresno, California, USA. p. 767-772. ill. Includes 14 references. (NAL Call No.: DNAL S612.I5 1985).

0483

Fluorometric detection of photosystem II herbicide penetration and detoxification in whole leaves (Sugarbeets, soybean, cotton, spinach).
Voss, M. Rieger, G.; Kotter, C.; Graber, P. Champaign, Ill. : Weed Science Society of America. Weed science. Sept 1984. v. 32 (5). p. 675-680. ill. Includes 23 references. (NAL Call No.: 79.8 W41).

0484

Foliage temperature: effects of environmental factors with implications for plant water stress assessment and the CO2/climate connection.
WRERA0. Idso, S.B. Clawson, K.L. Washington, D.C. : American Geophysical Union. Water resources research. Nov 1986. v. 22 (12). p. 1702-1716. Includes references. (NAL Call No.: DNAL 292.8 W295).

(PLANT PHYSIOLOGY AND BIOCHEMISTRY)

0485

The foraging activity of *Agapostemon angelicus* Cockerell relative to hybrid cottonseed production in Texas.

SENTD. Berger, L.A. Moffett, J.O.; Rummel, D.R. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Mar 1988. v. 13 (1). p. 47-54. Includes references. (NAL Call No.: DNAL QL461.S65).

0486

Fruit set and retention (Cotton).

Kerby, T.A. Memphis, Tenn. : Southwest Five-State Cotton Growers Association. Summary proceedings - Western Cotton Production Conference. 1984. 1984. p. 21-26. ill. (NAL Call No.: 72.8 W522).

0487

Fruiting and growth characteristics of cotton grown under drip and conventional irrigation.

BCOPB. Stichler, C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 171-172. Includes references. (NAL Call No.: DNAL SB249.N6).

0488

Fruiting position influence on yield components of cotton bolls. I. Fiber properties.

BCOPB. Bernhardt, J.L. Phillips, J.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 113-115. (NAL Call No.: DNAL SB249.N6).

0489

Fungicide and temperature affect leachate-predicted germination of cotton.

AGJDAT. Smith, C.W. Varvil, J.J. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1985. v. 77 (1). p. 9-12. Includes 18 references. (NAL Call No.: DNAL 4 AM34P).

0490

Gene sets active in cottonseed embryogenesis.

Dure, L. III. Chlan, C.A.; Baker, J.C.; Galau, G.A. New York : Alan R. Liss. UCLA symposia on molecular and cellular biology. Paper presented at the "Symposium on Molecular Biology of Development," April 1-7, 1984, Steamboat

Springs, Colorado. 1984. v. 19. p. 591-599. ill. Includes 10 references. (NAL Call No.: DNAL QH506.U34).

0491

Generation of a membrane potential by electron transport in plasmalemma-enriched vesicles of cotton and radish.

PLPHA. Hassidim, M. Rubinstein, B.; Lerner, H.R.; Reinhold, L. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1987. v. 85 (4). p. 872-875. Includes references. (NAL Call No.: DNAL 450 P692).

0492

Germination and seed production of unicorn-plant (*Proboscidea louisianica*).

WEESA6. Riffle, M.S. Thilsted, W.E.; Murray, D.S.; Ahring, R.M.; Waller, G.R. Champaign, Ill. : Weed Science Society of America. Field and laboratory experiments were conducted with unicorn-plant to determine conditions required for germination and to measure seed production. Field-grown plants produced an average of 122 pods/plant with an average of 71 seed/pod. The highest percent germination from seed harvested in 1980 occurred following a 2-week prechill treatment of 4 C. Germination increase was greater by removing the seed coat and the membrane enclosing the embryo than by removing the seed coat alone. Germination of seed from all pod compartments was similar. Aqueous extracts of unicorn-plant testa, leaf, stem, root, and exocarp were inhibitory in petri dish bioassays to cotton radicle growth. Extracts of stem, root, and exocarp were inhibitory to wheat radicle growth, and extracts of endocarp, leaf, and exocarp were inhibitory to unicorn-plant radicle growth. Seed buried in the field 10 cm deep for 1 to 8 months showed increased germination over time. Germination was lower when seed were stored at 4 C for 1 to 8 months in a soil having 25% (v/v) water. Weed science. Nov 1988. v. 36 (6). p. 787-791. Includes references. (NAL Call No.: DNAL 79.8 W41).

0493

GOSSYM/COMAX evaluation in Texas.

BCOPB. Childers, R.E. Metzger, R.B.; Parnell, C.B.; Akins, D.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 155-158. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

0494

Greenhouse testing of the reported positive growth response for cotton treated with temik (aldicarb) pesticide.

BCOPB. Womack, C.L. Schuster, M.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 203-205. Includes 10 references. (NAL Call No.: DNAL SB249.N6).

0495

Growth analysis of cottons with differing maturities.

AGJOAT. Kohel, R.J. Benedict, C.R. Madison, Wis. : American Society of Agronomy. Agronomy Journal. Jan/Feb 1987. v. 79 (1). p. 31-34. Includes references. (NAL Call No.: DNAL 4 AM34P).

0496

Growth and nutrient uptake of cotton as affected by N source and dicyandiamide.

BCOPB. Reeves, D.W. Rickerl, D.H.; Touchton, J.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 481-484. Includes references. (NAL Call No.: DNAL SB249.N6).

0497

Growth and water relations of cotton (*Gossypium hirsutum*), spurred anoda (*Anoda cristata*), and velvetleaf (*Abutilon theophrasti*) during simulated drought and recovery.

WEESA6. Patterson, D.T. Champaign, Ill. : Weed Science Society of America. Abstract: Cotton (*Gossypium hirsutum* L. 'Coker 315'), spurred anoda *Anoda cristata* (L.) Schlecht. ~ ANVCR, and velvetleaf (*Abutilon theophrasti* Medik. ~ ABUTH) were grown in controlled-environment chambers at 29/23 C day/night temperature and 1000 microE.m-2.s-1 photosynthetic photo flux density (PPFD). Groups of plants were subjected to water by withholding water for 8 days, beginning at 27 days after planting. Cotton reached a lower leaf water potential than spurred anoda and velvetleaf following 8 days of withholding water. Following the drought, plants were rewatered for a 6-day recovery period. Water stress reduced plant height, leaf number, leaf area, total dry weight, stomatal conductance, transpiration, net assimilation rate, and leaf area duration in all species, in comparison with well-watered controls. Water stress decreased partitioning of plant biomass into leaves and increased partitioning into roots. Following rewatering, stomatal conductance and transpiration rates of previously stressed plants recovered to control levels within 28 h. Net assimilation rates of previously stressed spurred anoda also

recovered to control levels. After 6 days of recovery, total dry weights and leaf areas of previously stressed plants of all three species remained below those of control plants. The overall effect of the drought and water stress was to delay the time at which spurred anoda and velvetleaf equaled or surpassed cotton in dry weight and leaf area, suggesting that drought early in the growing season under field conditions might increase the competitiveness of cotton relative to the two weeds. Weed science. May 1988. v. 36 (3). p. 318-324. Includes references. (NAL Call No.: DNAL 79.8 W41).

0498

Heat-unit calculations in cotton crop and insect models.

Fry, K.E. Oakland : The Service. Advances in agricultural technology. AAT-W. - United States, Dept. of Agriculture, Agricultural Research Service, Western Region. Includes statistical data. Feb 1983. (23). 23 p. ill. Includes 14 references. (NAL Call No.: DNAL aS21.A76U66).

0499

Highlights of the 1984 Cotton Physiology Research Conference.

Cathey, G.W. Memphis, Tenn. : National Cotton Council of America. Proceedings of the ... Beltwide Cotton Production-Mechanization Conference. 1984. 1984. p. 44-45. (NAL Call No.: 72.9 C8292).

0500

Hormonal regulation of protein synthesis associated with salt tolerance in plant cells.

PNASA. Singh, N.K. LaRosa, P.C.; Handa, A.K.; Hasegawa, P.M.; Bressan, R.A. Washington, D.C. : The Academy. Proceedings of the National Academy of Sciences of the United States of America. Feb 1987. v. 84 (3). p. 739-743. ill. Includes references. (NAL Call No.: DNAL 500 N21P).

0501

How feasible is the idea to fertilize cotton with carbon dioxide?

BCOPB. Mauney, J.R. Hendrix, D.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. ~ Includes abstract. 1988. p. 84. (NAL Call No.: DNAL SB249.N6).

0502

Hydraulic conductivity of roots and root cells of nutrient-stressed cotton seedlings.

BCOPB. Radin, J.W. Matthews, M.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 81. (NAL Call No.: DNAL SB249.N6).

0503

Identification and activity of endogenous growth inhibitors in leaves of dwarf and tall cotton lines.

SOPPA. Nadzhimov, U.K. Abzalov, M.F.; Rashkes, A.M.; Musaev, D.A.; Shegai, I.D.; Shakhidoyatov, Kh.M. New York, N.Y. : Consultants Bureau. Soviet plant physiology. Translated from: Fiziologiya rastenii, v. 34 (1), January/February 1987, p. 89-96. (450 F58). Jan/Feb 1987 (transl. July 1987). v. 34 (1,pt.1). p. 71-77. Includes references. (NAL Call No.: DNAL 450 F58AE).

0504

Identification of a receptor protein in cotton fibers for the herbicide 2,6-dichlorobenzonitrile.

PLPHA. Delmer, D.P. Read, S.M.; Cooper, G. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1987. v. 84 (2). p. 415-420. ill. Includes references. (NAL Call No.: DNAL 450 P692).

0505

Incorporation of UDPGlucose into cell wall glucans and lipids by intact cotton fibers.

PLPHA. Dugger, W.M. Palmer, R.L. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1986. v. 81 (2). p. 464-470. Includes 30 references. (NAL Call No.: DNAL 450 P692).

0506

Incorporation of ¹⁴C glucose into cell wall polysaccharides of cotton roots: effects of NaCl and CaCl₂.

PLPHA. Zhong, H. Lauchli, A. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Nov 1988. v. 88 (3). p. 511-514. Includes references. (NAL Call No.: DNAL 450 P692).

0507

Induced immunelike resistance to spider mites in cotton.

CAGRA. Karban, R. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1986. v. 40 (11/12). p. 13-15. ill. (NAL Call No.: DNAL 100 C12CAG).

0508

Induction of gossypol derivatives in cotton cell suspension cultures.

BCOPB. Heinstein, P.F. Altman, D.W.; Stipanovic, R.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 46-47. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

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Influence of cultivar height on competitiveness of cotton (*Gossypium hirsutum*) with johnsongrass (*Sorghum halepense*).

WEESA6. Bridges, D.C. Chandler, J.M. Champaign, Ill. : Weed Science Society of America. Research was conducted from 1983 through 1986 to compare the competitiveness of three cotton cultivars of different height with johnsongrass. Cultivars evaluated were: '1209-619-7', 'TAMCOT SP37-H', and 'Stoneville 213', which had an average height at maturity of 66, 122, and 168 cm, respectively. Each cultivar was grown with johnsongrass densities of 0, 4, and 6 plants/6 m of row with a 1-m row spacing. Johnsongrass biomass data confirmed that all three cultivars did compete with johnsongrass, but regression analyses using cultivar as a covariate revealed no difference in the competitiveness of the three cultivars. Weed science. Sept 1988. v. 36 (5). p. 616-620. Includes references. (NAL Call No.: DNAL 79.8 W41).

0510

Influence of nectaried and nectariless cottons, *Gossypium hirsutum*, on field populations of spider mites, *Tetranychus urticae*.

GENSAB. Bailey, J.C. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. Oct 1984. v. 19 (4). p. 437-439. Includes references. (NAL Call No.: DNAL QL461.G4).

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Influence of sethoxydim, MSMA and glyphosate on cotton fruiting.

AKARA. Frans, R. Terhune, E.; McClelland, M. Fayetteville, Ark. : The Station. Report series - Arkansas Agricultural Experiment Station. July 1988. (308). 18 p. ill. Includes references. (NAL Call No.: DNAL 100 AR42R).

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Influences of ultra-violet (UV)-blue light radiation on the growth of cotton. I. Effect on iron nutrition and iron stress response.

JPNUDS. Jolley, V.D. Brown, J.C.; Pushnik, J.C.; Miller, G.W. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Feb 1987. v. 10 (3). p. 333-351. Includes references. (NAL Call No.: DNAL QK867.J67).

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Influx of Na⁺, K⁺, and Ca²⁺ into roots of salt-stressed cotton seedlings: effects of supplemental Ca²⁺.

PLPHA. Cramer, G.R. Lynch, J.; Lauchli, A.; Epstein, E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Mar 1987. v. 83 (3). p. 510-516. Includes references. (NAL Call No.: DNAL 450 P692).

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Inhibition of elicitor-induced phytoalexin formation in cotton and soybean cells by citrate.

PLPHA. Apostol, I. Low, P.S.; Heinstein, P.; Stipanovic, R.D.; Altman, D.W. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1987. v. 84 (4). p. 1276-1280. Includes references. (NAL Call No.: DNAL 450 P692).

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Inhibitors of lipase activities in soybean and other oil seeds.

PLPHA. Wang, S.M. Huang, A.H.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Dec 1984. v. 76 (4). p. 929-934. ill. Includes 19 references. (NAL Call No.: DNAL 450 P692).

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Injury and yield response of cotton to chronic doses of ozone and sulfur dioxide.

JEVQAA. Heagle, A.S. Heck, W.W.; Lesser, V.M.; Rawlings, J.D.; Rawlings, J.D.; Mowry, F.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1986. v. 15 (4). p. 375-382. Includes references. (NAL Call No.: DNAL QH540.J6).

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Intracellular pH of cotton embryos and seed coats during fruit development determined by ³¹P nuclear magnetic resonance spectroscopy.

PLPHA. Hendrix, D.L. Radin, J.W.; Nieman, R.A. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Oct 1987. v. 85 (2). p. 588-591. Includes references. (NAL

Call No.: DNAL 450 P692).

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Involvement of ethylene in the action of the cotton defoliant thidiazuron.

PLPHA. Suttle, J.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1985. v. 78 (2). p. 272-276. Includes 21 references. (NAL Call No.: DNAL 450 P692).

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Isoosmotic regulation of cotton and peanut at saline concentrations of K and Na.

PLPHA. Lauter, D.J. Meiri, A.; Shuali, M. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1988. v. 87 (4). p. 911-916. Includes references. (NAL Call No.: DNAL 450 P692).

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Leaf conductance in relation to rate of CO₂ assimilation. I. Influence of nitrogen nutrition, phosphorus nutrition, photon flux density, and ambient partial pressure of CO₂ during ontogeny.

PLPHA. Wong, S.C. Cowan, I.R.; Farquhar, G.D. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1985. v. 78 (4). p. 821-825. Includes 11 references. (NAL Call No.: DNAL 450 P692).

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AGJDAT. McMichael, B.L. Jordan, W.R.; Quisenberry, J.E.; Dilbeck, R.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. Nov/Dec 1984. v. 76 (6). p. 901-905. Includes 16 references. (NAL Call No.: DNAL 4 AM34P).

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Leaf temperatures of cotton and their relation to transpiration, varietal differences, and yields /by Frank M. Eaton and Galen O. Belden.

Eaton, Frank M. Belden, Galen O. Washington : U.S. Dept. of Agriculture, 1929. Caption title. 40 p. : ill. ; 23 cm. Literature cited: p. 37-39. (NAL Call No.: DNAL 1 Ag84Te no.91).

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Management strategies for cotton production in a semi-arid, short-season environment: plant spacing considerations.

BCOPB. Hopkins, H.J. Krieg, D.R.; Hatfield, J.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 58-59. (NAL Call No.: DNAL SB249.N6).

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Management strategies for maximum cotton production on the southern High Plains of Texas. IV. Canopy gas exchange.

BCOPB. Peng, S. Krieg, D.R.; Gertsis, A.C.; Hopkins, H.J.; Hatfield, J.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 76-77. (NAL Call No.: DNAL SB249.N6).

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Methods for collection and identification of volatile terpenes from cotton and evaluation of their attractiveness to boll weevils.

SENTD. Chang, J.F. Benedict, J.H.; Payne, T.L.; Camp, B.U. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Dec 1986. v. 11 (4). p. 233-241. ill. Includes references. (NAL Call No.: DNAL QL461.S65).

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Modeling cotton fruiting form abscission.

AGJDAT. Lieth, J.H. Arkin, G.F.; Hearn, A.B.; Jackson, B.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1986. v. 78 (4). p. 730-735. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Monitoring organic acids and carbohydrates in cotton leaves by high-performance liquid chromatography.

JAFCAU. Timpa, J.D. Burke, J.J. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1986. v. 34 (5). p. 910-913. Includes references. (NAL Call No.: DNAL 381 J8223).

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Morphology, chemistry, and genetics of Gossypium adaptations to pests.

RAPHB. Bell, A.A. New York : Plenum Press. Recent advances in phytochemistry. Literature review. 1984. v. 18. p. 197-230. ill. Includes 111 references. (NAL Call No.: DNAL QK865.A1R4).

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Natural cross-pollination in cotton /by D.M. Simpson.

Simpson, D. M. 1894-. Washington : U.S. Dept. of Agriculture, 1954. Cover title. 17 p. : ill., maps ; 23 cm. Literature cited: p. 17. (NAL Call No.: DNAL 1 Ag84Te no.1094).

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A new coumarin in cotton.

BCOPB. Chan, B.G. Wilson, F.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 106-107. Includes references. (NAL Call No.: DNAL SB249.N6).

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Nitrate reduction and nitrate content of cotton petioles.

BCOPB. Chu, C. Graham, L.E.; Bariola, L.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 67-70. Includes 19 references. (NAL Call No.: DNAL SB249.N6).

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Normal vs. Okra leaf yield interactions in cotton. II. Analysis of vegetative and reproductive growth.

CRPSAY. Wells, R. Meredith, W.R. Jr. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 223-228. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Opine synthesis in wild-type plant tissue.

PLPHA. Christou, P. Platt, S.G.; Ackerman, M.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Sept 1986. v. 82 (1). p. 218-221. Includes 24 references. (NAL Call No.: DNAL 450 P692).

0534

Osmoregulation in cotton in response to water stress. III. Effects of phosphorus fertility.
PLPHA. Ackerson, R.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1985. v. 77 (2). p. 309-312. ill. Includes 16 references. (NAL Call No.: DNAL 450 P692).

0535

Osmotic adjustment in cotton (Gossypium hirsutum L.) leaves and roots in response to water stress.
PLPHA. Oosterhuis, D.M. Wulfschleger, S.D. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1987. v. 84 (4). p. 1154-1157. Includes references. (NAL Call No.: DNAL 450 P692).

0536

Osmotic adjustment in water-stressed cotton leaves and roots.
AKFRA. Oosterhuis, D.M. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1985. v. 34 (6). p. 5. (NAL Call No.: DNAL 100 AR42F).

0537

Osmotic adjustment of cotton to moderate potassium-chloride stress and subsequent water stress during early stages of development.
AGJOAT. Bar-Tsur, A. Rudich, J. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1987. v. 79 (1). p. 166-171. Includes references. (NAL Call No.: DNAL 4 AM34P).

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TAAEA. Wanjura, D.F. Hatfield, J.L. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1986. v. 29 (1). p. 143-150. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

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Partitioning yield reduction from early cotton planting.
CRPSAY. Kittock, D.L. Taylor, B.B.; Hofmann, W.C. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1987. v. 27 (5). p. 1011-1015. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Peptide alcohols as promoters of nitrate and ammonium ion uptake in plants.
PLPHA. Lin, W. Kauer, J.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Feb 1985. v. 77 (2). p. 403-406. ill. Includes 17 references. (NAL Call No.: DNAL 450 P692).

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Physiological characteristics in cotton genotypes as affected by plant age and planting densities.
BCOPB. Mu'Allem, A.S. Muramoto, H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 66-69. Includes references. (NAL Call No.: DNAL SB249.N6).

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Physiological response of cotton plants to feeding of three Tetranychus spider mite species (Acar: Tetranychidae).
JEENAI. Brito, R.M. Stern, V.M.; Sances, F.V. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1217-1220. Includes references. (NAL Call No.: DNAL 421 J822).

0543

The physiological significance of phenylacetic acid in abscising cotton cotyledons.
PLPHA. Suttle, J.C. Mansager, E.R. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1986. v. 81 (2). p. 434-438. Includes 16 references. (NAL Call No.: DNAL 450 P692).

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AKFRAC. Oosterhuis, D.M. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1988. v. 37 (4). p. 8. (NAL Call No.: DNAL 100 AR42F).

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AGRYA. Benedict, C.R. Madison, Wis., Soil Science Society of America. Agronomy. A series of monographs - American Society of Agronomy. Literature review. 1984. (24). p. 151-200. ill. Includes references. (NAL Call No.: DNAL 4 AM392).

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The phytogram network.

Gensler, W.G. Kanto, V. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 97-99. ill. Includes references. (NAL Call No.: DNAL SB245.B42).

0547

Plant morphological and biochemical responses to field water deficits. I. Responses of glutathione reductase activity and paraquat sensitivity.

PLPHA. Burke, J.J. Gamble, P.E.; Hatfield, J.L.; Quisenberry, J.E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Oct 1985. v. 79 (2). p. 415-419. Includes 19 references. (NAL Call No.: DNAL 450 P692).

0548

Plant morphological and biochemical responses to field water deficits. II. Responses of leaf glycerolipid composition in cotton.

PLPHA. Wilson, R.F. Burke, J.J.; Quisenberry, J.E. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1987. v. 84 (2). p. 251-254. Includes references. (NAL Call No.: DNAL 450 P692).

0549

Pollen selection for heat tolerance in cotton.

CRPSAY. Rodriguez-Garay, B. Barrow, J.R. Madison, Wis. : Crop Science Society of America. Pollen from cotton (*Gossypium hirsutum* L.) cultivars, which demonstrate heat tolerance in the field, generally express higher fertility after heat treatment than pollen from heat sensitive cultivars. The objective of this study was to determine, if pollen could be heat treated to eliminate all but those grains with genetic heat tolerance. Genes for heat tolerance could then be selected in the pollen and effectively transferred by the backcross method. A highly heat tolerant breeding line, 7456, of *G. barbadense* L. was used as the donor parent and Paymaster 404', a heat sensitive cultivar, as the recurrent parent and all crosses were made with pollen treated 15 h at 35 degrees C to generate F1, F2 and first and second backcross populations. Increased heat tolerance, as measured by fertile pollen after heat treatment, was observed in plants from all populations. Similar heat tolerance patterns were observed in the parents, F1, F2, and first backcross populations, when plants were grown to maturity at high temperatures in a growth chamber. Pollen selection through heat treatment allows screening for large numbers of genetic combinations in pollen and may be a valuable method of breeding for heat tolerance and possibly other stress tolerance

characteristics. Crop science. Sept/Oct 1988. v. 28 (5). p. 857-858. Includes references. (NAL Call No.: DNAL 64.8 C883).

0550

A portable chamber for measuring canopy gas exchange of crops subject to different root zone conditions.

AGJOAT. Meyer, W.S. Reicosky, D.C.; Barrs, H.D.; Shell, G.S.G. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1987. v. 79 (1). p. 181-184. ill. Includes references. (NAL Call No.: DNAL 4 AM34P).

0551

Position of the uppermost white bloom defined by node counts as an indicator for termination of insecticide treatments in cotton.

JEENAI. Bernhardt, J.L. Phillips, J.R.; Tugwell, N.P. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1986. v. 79 (6). p. 1430-1438. Includes references. (NAL Call No.: DNAL 421 J822).

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Potassium nutrition of cotton.

Kerby, T.A. Adams, F. Madison, Wis. : American Society of Agronomy, 1985. Potassium in agriculture / Robert D. Munson, editor. Paper presented at an international symposium, 7-10 July 1985, Atlanta, Georgia.~ Literature review. p. 843-860. Includes references. (NAL Call No.: DNAL S587.5.P6P68).

0553

Potato leafhopper (Homoptera: Cicadellidae) feeding on seedling cotton.

JEENAI. Womack, C.L. Schuster, M.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1259-1263. Includes references. (NAL Call No.: DNAL 421 J822).

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Potential biological nep formation. 1. Distribution of mote, immature, and mature seeds in locules.

BCOPB. Wade, C.P. Ramey, H.H. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 54-57. ill. Includes 16 references. (NAL Call No.: DNAL SB249.N6).

0555

Potential for using leaf turgidity to select drought tolerance in cotton.

CRPSAY. Quisenberry, J.E. Wendt, C.W.; Berlin, J.D.; McMichael, B.L. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1985. v. 25 (2). p. 294-299. Includes 17 references. (NAL Call No.: DNAL 64.8 C883).

0556

Protein and tannin in upper, middle, and lower cotton plant strata and cigarette beetle (Coleoptera: Anobiidae) growth on the foliage.

JEENAI. Yokoyama, V.Y. Mackey, B.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1987. v. 80 (4). p. 843-847. Includes references. (NAL Call No.: DNAL 421 J822).

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Purification and measurement of abscisic acid and indoleacetic acid by high performance liquid chromatography.

PLPHA. Guinn, G. Brummett, D.L.; Beier, R.C. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Aug 1986. v. 81 (4). p. 997-1002. Includes 19 references. (NAL Call No.: DNAL 450 P692).

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A rapid leaf-disc sampler for psychrometric water potential measurements.

PLPHA. Wullschlegel, S.D. Oosterhuis, D.M. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. June 1986. v. 81 (2). p. 684-685. ill. Includes 5 references. (NAL Call No.: DNAL 450 P692).

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Reactions of the cotton plant to water stress.

Mauney, J.R. Memphis, Tenn. : Southwest Five-State Cotton Growers Association. Summary proceedings - Western Cotton Production Conference. 1984. 1984. p. 67. (NAL Call No.: 72.8 W522).

0560

Recovery from water stress: mineral nutrient levels.

BCOPB. Timpa, J.D. Upchurch, D.R.; Burke, J.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 60-61. Includes references. (NAL Call No.: DNAL SB249.N6).

0561

Relation of cotton protein and tannin to methyl parathion treatment and cigarette beetle (Coleoptera: Anobiidae) growth on foliage.

JEENAI. Yokoyama, V.Y. Mackey, B.E.; Leigh, T.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1987. v. 80 (4). p. 834-839. Includes references. (NAL Call No.: DNAL 421 J822).

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Relationships among heat units, date of planting and fruiting parameters.

BCOPB. Pegelow, E.J. Jr. Fisher, W.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 120-122. Includes 8 references. (NAL Call No.: DNAL SB249.N6).

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Response of cotton varieties grown in a short season to ethephon and thidiazuron in the arid southwest.

BCOPB. Bariola, L.A. Chu, C.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 302-303. Includes references. (NAL Call No.: DNAL SB249.N6).

0564

Responses of glasshouse grown cotton to irrigation with carbon dioxide-saturated water.

CRPSAY. Mauney, J.R. Hendrix, D.L. Madison, Wis. : Crop Science Society of America. Experiments were conducted to test the suitability of using irrigation water as a carrier for CO₂ to enhance growth and productivity of cotton (*Gossypium hirsutum* L.). Potted plants (DPL 61') were irrigated daily with CO₂-saturated water in a greenhouse in Phoenix, AZ. Growth, productivity, and physiological responses of these plants were compared to those irrigated with deionized water. All plants were fertilized twice weekly with a modified Hoagland's solution. Yield as measured by boll load at maturity was increased 70 and 53% in two sets of experiments. Carbon dioxide exchange rate (CER) was increased 38%. Leaf chlorophyll content and starch content were also increased. None of the carbon in lint samples was derived from the CO₂ in the irrigation water. Leaf Zn and Mn were deficient in the control plants but were sufficient in the plants watered with CO₂-saturated water. The CO₂-saturated irrigation water increased uptake of Zn and Mn, which supported a more robust photosynthetic apparatus in the treated compared to the control plants. The greater photosynthetic activity during boll loading

resulted in a significant increase in yield of the treated plants. Crop science. Sept/Oct 1988. v. 28 (5). p. 835-838. Includes references. (NAL Call No.: DNAL 64.8 C883).

0565

Responses to water stress in developing cotton bolls.

BCOPB. Timpa, J.D. Klich, M.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 82. (NAL Call No.: DNAL SB249.N6).

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Reversibility of photosynthetic inhibition in cotton after long-term exposure to elevated CO2 concentrations.

PLPHA. Sasek, T.W. DeLucia, E.H.; Strain, B.R. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. July 1985. v. 78 (3). p. 619-622. Includes 31 references. (NAL Call No.: DNAL 450 P692).

0567

Rhythmical changes in the sensitivity of cotton seedlings to herbicides.

PLPHA. Rikin, A. St John, J.B.; Wergin, W.P.; Anderson, J.D. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Oct 1984. v. 76 (2). p. 297-300. ill. Includes 14 references. (NAL Call No.: DNAL 450 P692).

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Risk management from stand to harvest: Understanding fruiting habits.

Mauney, J.R. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1985. p. 14-15. (NAL Call No.: DNAL SB245.B42).

0569

Roles of main-stem and sympodial leaves in cotton boll development and yield.

AKFRAC. Dosterhuis, D.M. Wullschlegel, S.D. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1987. v. 36 (2). p. 3. (NAL Call No.: DNAL 100 AR42F).

0570

Root cation exchange capacity of cotton cultivars in relation to aluminum toxicity.

JPNUDS. Kennedy, C.W. Smith, W.C. Jr.; Ba, M.T. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Aug 1986. v. 9 (8). p. 1123-1133. Includes 16 references. (NAL Call No.: DNAL QK867.J67).

0571

Root length density from minirhizotron observations.

AGJOAT. Bland, W.L. Dugas, W.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. Mar/Apr 1988. v. 80 (2). p. 271-275. Includes references. (NAL Call No.: DNAL 4 AM34P).

0572

Sample preparation for leaf water potential measurements of cotton by the pressure bomb method.

BCOPB. Pennington, D.A. Belford, C.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 89-91. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

0573

Seed.

AGRYA. Cherry, J.P. Leffler, H.R. Madison, Wis., Soil Science Society of America. Agronomy. A series of monographs - American Society of Agronomy. Literature review. 1984. (24). p. 511-569. ill. Includes references. (NAL Call No.: DNAL 4 AM392).

0574

Sesquiterpenoid phytoalexins and resistance of cotton to Xanthomonas campestris pv. malvacearum.

Essenberg, M. Pierce, M.; Shevell, J.L.; Sun, T.J.; Richardson, P.E. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory, 1985. Plant cell/cell interactions / edited by Ian Sussex ... et al. . Paper presented at a meeting on the topic of plant cell/cell interactions at the Banbury Conference Center of Cold Spring Harbor Laboratory, New York, October 2-4, 1985. p. 145-149. Includes references. (NAL Call No.: DNAL QK725.P552).

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A simple and precise assay for microbial and enzymatic decomposition of cellulose applicable in agricultural research.

Marsh, P.B. Simpson, M.E. Greenbelt : Institute for Alternative Agriculture. American journal of alternative agriculture. Fall 1986. v. 1 (4). p. 174-180. ill. Includes references. (NAL Call No.: DNAL S605.5.A43).

0576

Soil-dependent spectral response in a developing plant canopy.

AGJOAT. Huete, A.R. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1987. v. 79 (1). p. 61-68. Includes references. (NAL Call No.: DNAL 4 AM34P).

0577

Somatic embryogenesis in *Gossypium hirsutum* L.
BCOPB. Mitten, D.H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 57-58. Includes 12 references. (NAL Call No.: DNAL SB249.N6).

0578

Some ways a cotton producer can use DD-60 data.
BCOPB. Pearson, B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 375-383. ill. Includes 4 references. (NAL Call No.: DNAL SB249.N6).

0579

Specific gravity of closed cotton bolls (*Gossypium hirsutum*).

Anthony, W.S. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-3063). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0580

Stimulation of sesquiterpene aldehyde formation in *Gossypium arboreum* cell suspension cultures by conidia of *Verticillium dahliae*.

JNPRDF. Heinsteint, P. Cincinnati, Ohio : American Society of Pharmacognosy and the Lloyd Library and Museum. Journal of natural

products. Nov/Dec 1985. v. 48 (6). p. 907-915. Includes references. (NAL Call No.: DNAL 442.8 L77).

0581

Stomatal responses to water stress and to abscisic acid in phosphorus-deficient cotton plants.

PLPHA. Radin, J.W. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Oct 1984. v. 76 (2). p. 392-394. ill. Includes 28 references. (NAL Call No.: DNAL 450 P692).

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Structural and genetic variation of natural pesticides in pigment glands of cotton (*Gossypium*).

ACSMC. Bell, A.A. Stipanovic, R.D.; Elzen, G.W.; Williams, H.J. Jr. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1987. (330). p. 477-490. Includes references. (NAL Call No.: DNAL QD1.A45).

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BCOPB. Wanjura, D.F. Hatfield, J.L.; Barker, G.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 481-484. Includes 5 references. (NAL Call No.: DNAL SB249.N6).

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JEENAI. Womack, C.L. Schuster, M.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1986. v. 79 (4). p. 1118-1120. Includes references. (NAL Call No.: DNAL 421 J822).

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Kerby, T.A. Johnson, S.R.; Keeley, M. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 15-18. Includes references. (NAL Call No.: DNAL SB245.B42).

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JESCEP. Martin, W.R. Jr. Sterling, W.L.; Kenerley, C.M.; Morgan, P.W. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Apr 1988. v. 23 (2). p. 161-168. Includes references. (NAL Call No.: DNAL QL461.G4).

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UDP-glucose: (1 leads to 3)-beta-glucan synthases from mung bean and cotton. Differential effects of Ca²⁺ and Mg²⁺ on enzyme properties and on macromolecular structure of the glucan product.
PLPHA. Hayashi, T. Read, S.M.; Bussell, J.; Thelen, M.; Lin, F.C.; Brown, R.M. Jr.; Delmer, D.P. Rockville, Md. : American Society of Plant Physiologists. Plant physiology. Apr 1987. v. 83 (4). p. 1054-1062. ill. Includes references. (NAL Call No.: DNAL 450 P692).

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Upper threshold required for heat unit. Calculations for cotton growth in the Far West.
BCOPB. Kerby, T.A. Wilson, L.T.; Johnson, S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 366-367. ill. Includes 13 references. (NAL Call No.: DNAL SB249.N6).

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Variation in early fruiting and boll retention of cotton.
BCOPB. Bourland, F.M. White, B.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 117-120. Includes 13 references. (NAL Call No.: DNAL SB249.N6).

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Volatile monoterpenes collected from the air surrounding flower buds of seven cotton genotypes.
CRPSAY. Chang, J.F. Benedict, J.H.; Payne, T.L.; Camp, B.J. Madison, Wis. : Crop Science Society of America. Some volatile monoterpenes released by cotton (*Gossypium hirsutum* L.) are olfactory cues to boll weevils (*Anthonomus grandis* Boheman) and some parasites. However, literature examined showed no studies that described or compared the monoterpene odor of different cotton genotypes at different stages of growth or in different environments. The objective of our study was to determine the monoterpene composition of the air surrounding flower buds of five cotton genotypes ('CAMD-E', 'SP-37', STV-213', STV-213 glandless, RDC-102 glandless, HG-1, and LEB0) grown under normal agronomic practices at College Station and Corpus Christi, TX. The monoterpenes were collected from the air surrounding excised buds of each genotype with a Porapak Q effluval collection system. The quantity of each monoterpene was determined with capillary column gas chromatography utilizing purified standards. The most abundant monoterpenes collected were alpha-pinene, beta-pinene, beta-myrcene, d-limonene, and beta-ocimene. The

total quantity of these five monoterpenes was greater for buds of glanded genotypes than for buds of glandless genotypes. Ratios of the five monoterpenes provided a relatively characteristic chemical profile for each genotype. Quantities and ratios of the five monoterpenes collected from buds were dynamic in that they fluctuated with the age of the cotton plant and the environment in which the plants were grown. These results indicate that the five monoterpenes composing, in part, the odor of commercial upland cotton, may differ spatially, temporally, and genetically. This suggests that researchers attempting to identify attractive plant odors should simultaneously compare insect responses and plant odor composition. Crop science. July/Aug 1988. v. 28 (4). p. 685-688. Includes references. (NAL Call No.: DNAL 64.8 C883).

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AGJOAT. Rosenthal, W.D. Arkin, G.F.; Shouse, P.J.; Jordan, W.R. Madison, Wis. : American Society of Agronomy. Agronomy journal. Nov/Dec 1987. v. 79 (6). p. 1019-1026. Includes references. (NAL Call No.: DNAL 4 AM34P).

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BCOPB. Radin, J.W. Mauney, J.R.; Kerridge, P.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 81. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Cornish, K. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 50-55. Includes references. (NAL Call No.: DNAL SB249.N6).

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CRPSAY. Bird, L.S. El-Zik, K.M.; Thaxton, P.M. Madison, Wis. : Crop Science Society of America. Crop science. Mar/Apr 1986. v. 26 (2). p. 384-385. Includes references. (NAL Call No.: DNAL 64.8 C883).

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BCOPB. Bagwell, R.D. Plapp, F.W. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 344-346. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Lacewell, R.D. Masud, S.M.; Teague, P.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 138-141. Includes 10 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Watson, T.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 141-143. Includes 7 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Hutchison, W.D. Beasley, C.A.; Henneberry, T.J.; Martin, J.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 274-276. Includes references. (NAL Call No.: DNAL SB249.N6).

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JEENAI. Treacy, M.F. Benedict, J.H.; Schmidt, K.M.; Anderson, R.M.; Wagner, T.L. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1149-1151. Includes references. (NAL Call No.: DNAL 421 J822).

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BCOPB. Treacy, M.F. Benedict, J.H.; Schmidt, K.M.; Anderson, R.M.; Wagner, T.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton

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Behavioral manipulation of *Trichogramma* (Hymenoptera: Trichogrammatidae).

Lewis, W.J. Gross, H.R.; Nordlund, D.A. College Station : Southwestern Entomological Society. Supplement to the southwestern entomologist. Dec 1985. (8). p. 49-55. Includes references. (NAL Call No.: DNAL QL461.S65 SUPPL.).

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Behavioral responses (time budgets) of bollworm (*Lepidoptera: Noctuidae*) larvae for three cotton cultivars.

EVETEX. Schmidt, K.M. Benedict, J.H.; Walmsley, M.H. College Park, Md. : Entomological Society of America. A greenhouse study was conducted to determine the effects of three cultivars, varying in resistance, on the behavior of first-, third-, and fifth-instar larvae of *Heliothis zea* (Boddie) using time budgets. Behavioral observations of individual larvae were made at 10-min intervals for 10 h (time budgets). Third- and fifth-instar larvae were observed feeding more frequently than resting on the glandless isolate of "Stoneville-213" and on "TAMCOT CAMD-E." All three larval instars tended to feed more frequently on squares than on other plant parts of all three cultivars. The next most frequent feeding site was the terminal (position of placement) for first instars and the bloom for third and fifth instars. Boll feeding was greatest among fifth instars. Antixenosis in CAMD-E was expressed as decreased feeding of first instars on terminals and of fifth instars on bolls. Distinct differences in frequency of feeding on squares, blooms, and bolls were found among the cultivars. More larvae were observed dropping off CAMD-E plants than off glandless plants. Observations of larval behavior using time budgets could be a useful method in screening cotton germplasm for resistant genotypes. Environmental entomology. Apr 1988. v. 17 (2). p. 350-353. Includes references. (NAL Call No.: DNAL QL461.E532).

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JEENAI. Butler, G.D. Jr. Henneberry, T.J.; Wilson, F.D. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1986. v. 79 (2). p. 350-354. Includes references. (NAL Call No.: DNAL 421 J822).

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Treacy, M.F. Benedict, J.H.; Schmidt, K.M. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. Jan 1988. (4545). 6 p. Includes references. (NAL Call No.: DNAL 100 T31P).

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Biological control of bollworm and tobacco budworm in cotton by augmentative releases of *trichogramma* / E.G. King ... et al. . --.

King, Edgar George, 1943-. College Station, Tex. : Southwestern Entomological Society. 1985. Cover title. ~ "December 1985.". 198 p. : ill. ; 23 cm. --. Includes bibliographies. (NAL Call No.: DNAL QL461.S65 Suppl. no.8).

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Biological control of plant bugs in cotton.

Schuster, M.F. Beltsville, Md. : The Service. ARS - United States Department of Agriculture, Agricultural Research Service. In the series analytic: Economic importance and biological control of *Lygus* and *Adelphocoris* in North America / edited by R.C. Hedlung and H.M. Graham. Dec 1987. (64). p. 13-19. Includes references. (NAL Call No.: DNAL aS21.R44A7).

(PESTS OF PLANTS - INSECTS)

0651

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EVETEX. Foster, M.A. Gaylor, M.J. College Park, Md. : Entomological Society of America. Environmental entomology. June 1987. v. 16 (3). p. 743-746. Includes references. (NAL Call No.: DNAL QL461.E532).

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BCOPB. Fitt, J.R. Jr. Teetes, G.L.; Anderson, R.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 206-208. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. McKibben, G.H. Robbins, J.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 232-233. maps. Includes 2 references. (NAL Call No.: DNAL SB249.N6).

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Collection of weevils and infested squares as a means of control of the cotton-boll weevil in the Mississippi Delta /B.R. Coad and T.F. McGehee.

Coad, B. R. 1890-. McGehee, Thomas Ford, 1889-. Washington, D.C. : U.S. Dept. of Agriculture, 1917. Caption title.~ "October 4, 1917."~ "Professional paper." 51 p., 2 p. of plates : ill. ; 24 cm. (NAL Call No.: DNAL 1 Ag84B no.564).

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JEENAI. Broza, M. Sneh, B.; Yawetz, A.; Oron, U.; Honigman, A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1984. v. 77 (6). p. 1530-1533. Includes references. (NAL Call No.: DNAL 421 J822).

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Comparative persistence of the ovicidal activity of thiodicarb, chlordimeform, and methomyl against *Heliothis* spp. (Lepidoptera: Noctuidae) on cotton.

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Flint, H.M. Curtice, N.J.; Wilson, F.D. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Oct 1986. v. 3 (4). p. 362-368. Includes references. (NAL Call No.: DNAL SB599.J69).

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Chittenden, F. H. 1858-1929. Washington, D.C. : U.S. Dept. of Agriculture, 1918. Cover title.~ "Contribution from the Bureau of Entomology." 16 p. : ill., 1 map ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.914).

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BCOPB. Hatfield, L.D. Gage, E.V.; McDaniel, S.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 208-209. Includes 2 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Ridgway, R.L. Dickerson, W.A.; Leonhardt, B.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 290-291. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Stone, N.D. Frisbie, R.E.; Richardson, J.W.; Sansone, C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 194-197. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

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Baldwin, J.L. Walker, J.K.; Benedict, J.H.; Armstrong, A.A.; Niles, G.A. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. June 1984. v.9 (2). p. 198-211. ill. Includes references. (NAL Call No.: QL461.S65).

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BCOPB. Young, J.H. Willson, L.J.; Price, R.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 488-489. Includes 5 references. (NAL Call No.: DNAL SB249.N6).

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Shannon, M. Tempe, Ariz. : Arizona Farmer-Stockman. Arizona farmer-stockman. Jan 1988. v. 67 (1). p. 10. (NAL Call No.: DNAL 6 AR44).

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Cotton insect and mite control with Capture 2.OEC insecticide/miticide.

BCOPB. Mitchell, H.R. Hatfield, L.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 321-323. Includes references. (NAL Call No.: DNAL SB249.N6).

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DuRant, J.A. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. July 1984. v. 1 (3). p. 210-211. Includes references. (NAL Call No.: DNAL SB599.J69).

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Cotton or weevils / by J.L. Webb and F.A. Merrill .

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BCOPB. Kukas, R.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 233-235. Includes references. (NAL Call No.: DNAL SB249.N6).

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CAGRA. Sevacherian, V. El-Zik, K.M. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1984. v. 38 (11/12). p. 20. ill. (NAL Call No.: DNAL 100 C12CAG).

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Cotton square damage by the plant bug, *Lygus hesperus* (Hemiptera: Heteroptera: Miridae), and abscission rates.

JEENAI. Leigh, T.F. Kerby, T.A.; Wynholds, P.F. College Park, Md. : Entomological Society of America. Numbers of *Lygus hesperus* Knight per 50 net sweeps and numbers of abscised and lygus bug damaged squares per cotton plant terminal were counted weekly. Square abscission and square damage showed a high positive correlation with *L. hesperus* numbers ($r = 0.92$, $n = 7$, for week of count and $r = 0.69$, $n = 63$ for June through July) and with square age ($r = 0.96$, $n = 20$); fruit set on first and second sympodial branch positions showed a high negative correlation with *L. hesperus* numbers ($r = 0.65$, $n = 25$, for zero to six bugs per 50 sweeps). Comparisons of the proportion of squares damaged by lygus bugs between the terminal 5 nodes, terminal 10 nodes, and all nodes on one to three dates per location indicate that the terminal 5 nodes provide a reliable estimate of *T. hesperus* feeding damage to squares. Our calculations indicate that before 1 August each lygus bug collected in the sweepnet indicates a potential for 23,400 abscised plus damaged squares per hectare on the day of sample. Boll retention in relation to lygus bug numbers is presented. This information is expected to provide guidance when developing management strategies for *L. hesperus* on cotton. Square damage and loss can be used to estimate need for pesticide use and for refining the lygus bug: square ratio as an estimator of treatment threshold. Journal of economic entomology. Oct 1988. v. 81 (5). p. 1328-1337. Includes references. (NAL Call No.: DNAL 421 J822).

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BCOPB. Broza, M. Butler, G.D. Jr.; Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 301. Includes references. (NAL Call No.: DNAL SB249.N6).

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Farlow, R.A. Zummo, G.R. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 88-90. (NAL Call No.: DNAL SB245.B42).

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Cultural control in southeastern U.S. cropping systems.

SCSBA. Bradley, J.R. Herzog, G.A.; Roach, S.H.; Stinner, R.E.; Terry, L.I. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Feb 1986. (316). p. 22-27. Includes 34 references. (NAL Call No.: DNAL 100 G29S0).

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Cultural control of Heliothis spp. in southwestern U.S. cropping systems.

SCSBA. Rummel, D.R. Leser, J.F.; Slosser, J.E.; Puterka, G.J.; Neeb, C.W.; Walker, J.K.; Benedict, J.H.; Heilman, M.D.; Namken, L.N.; Norman, J.W.; Young, J.H. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Literature review. Feb 1986. (316). p. 38-53. Includes references. (NAL Call No.: DNAL 100 G29S0).

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Cultural control of the boll weevil (Coleoptera: Curculionidae): effects of narrow-row spacing and row direction.

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Moody, R. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1985. p. 66. (NAL Call No.: DNAL SB245.B42).

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Defoliation and acrylic film coating as means of increasing cotton boll temperatures.

BCOPB. Bariola, L.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 82-84. Includes references. (NAL Call No.: DNAL SB249.N6).

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Destruction of pink bollworm: feasibility of using a forage harvester to finely chop cotton stalks and bolls for safe storage.

BCOPB. Natwick, E.T. Staten, R.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 311-315. Includes

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Development of pyrethroid resistance in *Heliothis* populations in cotton in Texas.
BCOPB. Allen, C.T. Multer, W.L.; Minzenmayer, R.R.; Armstrong, J.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 332-335. maps. Includes references. (NAL Call No.: DNAL SB249.N6).

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Developmental changes in the tannin content of cotton leaves: implications in breeding for pest resistance.
BCOPB. Bell, A.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 31. (NAL Call No.: DNAL SB249.N6).

0729

Developmental time of sweetpotato whitefly (*Homoptera: Aleyrodidae*) in small field cages on cotton plants.
FETMA. Zalom, F.G. Natwick, E.T. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. Dec 1987. v. 70 (4). p. 427-431. Includes references. (NAL Call No.: DNAL 420 F662).

0730

DiBeta: a promising material for lygus bug and spider mite control in cotton.
Grau, P. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1987. p. 136-137. (NAL Call No.: DNAL SB245.B42).

0731

Dispersal of *Lygus lineolaris* (*Heteroptera: Miridae*) adults through cotton following nursery host destruction.
EVETEX. Fleischer, S.J. Gaylor, M.J.; Hue, N.V. College Park, Md. : Entomological Society of America. Abstract: Movement of *Lygus lineolaris* (Palisot de Beauvois) adults following destruction of a nursery plot placed within a cotton (*Gossypium hirsutum* L.) field was traced in two field studies. An internal physiological marker was acquired during feeding on the nursery plot and resulted in higher numbers of marked individuals than use of fluorescent dust applied to captured insects. This was in spite of repeated efforts to establish a population

of fluorescent-marked individuals. Dispersal immediately following destruction of the nursery plot was adequately modeled as a diffusion process, but emigration from the cotton occurred within days. When *Erigeron annuus* (L.) Persoon refuges were nearby, there was a large increase in the number of marked adults found in the refuges one and two days after the nursery host was destroyed. Screenhouse studies showed that the presence of *E. annuus* near cotton significantly decreased the proportion of adults that remained on the cotton. Projections of colonization potentials were higher for founder populations on *E. annuus* than on cotton. This suggests that movement toward *E. annuus* represents efficient use of habitat by this polyphagous species even when *E. annuus* exists as small patchy refuges within cotton monocultures. Damage to cotton reflected the high *L. lineolaris* density imposed by the placement and later destruction of the nursery plot, suggesting that damage can result from improper management of nursery hosts. Environmental entomology. June 1988. v. 17 (3). p. 533-541. Includes references. (NAL Call No.: DNAL QL461.E532).

0732

Dosage-mortality studies of synthetic pyrethroids on the tobacco budworm in the Yaqui Valley of Sonora, Mexico.
BCOPB. Martinez-Carrillo, J.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 359-360. Includes references. (NAL Call No.: DNAL SB249.N6).

0733

Dusting for the cotton boll weevil /B.R. Coad and T.P. Cassidy.
Coad, B. R. 1890-. Cassidy, T. P. 1890-. Washington, D.C. : U.S. Dept. of Agriculture. 1923. 3 p. ; 23 cm. (NAL Call No.: DNAL 1 Ag84D no.274).

0734

Dusting machinery for cotton boll weevil control /Elmer Johnson and B.R. Coad.
Johnson, Elmer. Coad, B. R. 1890-. Washington, D.C. : U.S. Dept. of Agriculture, 1920. Cover title.~ "Contribution from the Bureau of Entomology.". 31 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1098).

(PESTS OF PLANTS - INSECTS)

0735

Dynamics and control of early season populations of the tarnished plant bug, *Lygus lineolaris* in *Geranium dissectum*.

BCOPB. Stadelbacher, E.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 226-228. Includes references. (NAL Call No.: DNAL SB249.N6).

0736

Dynamics and impact of cotton fruit abscission and survival.

EVETEX. Stewart, S.D. Sterling, W.L. College Park, Md. : Entomological Society of America. Cotton fruit from a given location on the plant were assigned to cohorts. The quantity and causes of fruit abscission in each cohort were monitored in three management systems. The proportion of fruit abscission caused by insect pests was largest in the early-season cohorts, whereas physical stresses caused increasingly more fruit abortion in later cohorts. Plants tolerate insect-induced fruit abortion by retaining more of the surviving fruit within the same cohort. When a cohort was severely injured, fruit survivorship was increased in subsequent cohorts to compensate for the loss. Fruit production, abscission, and retention were normally distributed, and the patterns were consistent enough to suggest that a cohort technique may be a useful modelling approach. Environmental entomology. Aug 1988. v. 17 (4). p. 629-635. Includes references. (NAL Call No.: DNAL QL461.E532).

0737

Dynamics of Preimaginal populations of *Bemisia tabaci* (Homoptera: Aleyrodidae) and *Eretmocerus* sp. (Hymenoptera: Aphelinidae) in southern California cotton.

EVETEX. Bellows, T.S. Jr. Arakawa, K. College Park, Md. : Entomological Society of America. Abstract: Immature populations of sweetpotato whitefly, *Bemisia tabaci* (Gennadius), were sampled in cotton fields in southern California; three fields were sampled in 1982; five fields were sampled in 1983. Population densities varied from 0 to 20 nymphs per mainstem node. Young nymphs represented approximately half the population early in the season, but the proportion of young nymphs decreased to zero late in the season. Populations were subject to little parasitism by *Eretmocerus* sp. in the first half of the season; parasitism increased to about 70% in the second half of the season. Environmental entomology. June 1988. v. 17 (3). p. 483-487. Includes references. (NAL Call No.: DNAL QL461.E532).

0738

Early-season boll weevil control.

Moore, L. Barstow, B.; Borth, P.; Lane, M. Tucson, Ariz. : The Service. Cooperative Extension Service - University of Arizona, College of Agriculture. 1984. (8428). 3 p. (NAL Call No.: DNAL S544.3.A6C6).

0739

Early season control of insects and mites: compatibility with the concept of IPM in cotton.

Smith, J.W. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1987. p. 12-14. (NAL Call No.: DNAL SB245.B42).

0740

Early season insect control: effects on cotton yield and fruiting.

Terry, I. Barstow, B.B.; Moore, L. Tucson, Ariz. : The Service. Publication - Cooperative Extension Service, University of Arizona, College of Agriculture. May 1986. (8648). 8 p. (NAL Call No.: DNAL S544.3.A6C6).

0741

Early season insect control: effects on cotton yield and fruiting.

BCOPB. Terry, I. Barstow, B.B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 181-183. Includes 5 references. (NAL Call No.: DNAL SB249.N6).

0742

Early season insecticide timing study.

BCOPB. Ratchford, K.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 178-179. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

0743

Early season insect control and comparative cotton yields with Pydrin insecticide.

BCOPB. Bierman, R.H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 191-193. (NAL Call No.: DNAL SB249.N6).

0744

Early season production management practices: insects.

Smith, R.H. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 17-20. Includes references. (NAL Call No.: DNAL SB245.B42).

0745

Economic evaluation of area-wide cotton insect management: boll weevils in the southeastern United States.

Carlson, G.A. Suguiyama, L. Raleigh, N.C. : The Service. Bulletin - North Carolina Agricultural Research Service, North Carolina State University. June 1985. (473). 24 p. maps. Includes references. (NAL Call No.: DNAL 100 N81 (1)).

0746

An economic evaluation of *Heliothis* spp. insecticidal control on cotton at Stoneville, Mississippi, from 1961 to 1984.

BCOPB. Cooke, F.T. Smith, J.W.; Pfrimmer, T.R.; Parvin, D.W. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 287-290. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

0747

An economic evaluation of integrated pest management for cotton, peanuts, and soybeans in Georgia.

GARBB. Hatcher, J.E. Wetzstein, M.E.; Douce, G.K. Athens, Ga. : The Stations. Research bulletin - University of Georgia, Experiment Stations. Nov 1984. (318). 28 p. maps. Includes references. (NAL Call No.: DNAL S51.E2).

0748

Economic impact of increased bollworm pressure on cotton: Texas High Plains.

TAEMA. Masud, S.M. Lacewell, R.D.; Stoll, J.R.; Walker, J.K.; Leser, J.F.; Sellar, C. College Station, Tex. : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. Jan 1986. (1590). 50 p. maps. Includes 10 references. (NAL Call No.: DNAL 100 T31M).

0749

Economic impact of increased bollworm pressure on the Texas High Plains.

BCOPB. Masud, S.M. Lacewell, R.D.; Stoll, J.R.; Walker, J.K.; Leser, J.F.; Sellar, C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 308-311. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

0750

Economic implications of a regional uniform planting date cotton production system: Texas Rolling Plains.

JEENAI. Masud, S.M. Lacewell, R.D.; Boring, E.P. III; Fuchs, T.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1985. p. 535-541. (NAL Call No.: DNAL 421 J822).

0751

Economic implications of alternative cotton IPM strategies in the United States.

Masud, S.M. Lacewell, R.D. College Station, Tex. : The Department. Departmental information report - Texas Agricultural Experiment Station, Texas A & M University, Dept. of Agricultural Economics. 1985. (85-5). 95 p. Includes 27 references. (NAL Call No.: DNAL HD1775.T4T4).

0752

Economic value of fruit based on size and time of season.

BCOPB. Stewart, S.D. Sterling, W.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 256-258. Includes references. (NAL Call No.: DNAL SB249.N6).

0753

The economics of cotton harvesting in the midsouth as it relates to shorter season production systems.

Parvin, D.W. Jr. Smith, J.W.; Cooke, F.T. Jr. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1987. p. 79-81. (NAL Call No.: DNAL SB245.B42).

(PESTS OF PLANTS - INSECTS)

0754

The economics of cotton harvesting in the midsouth with emphasis on early season insect control.

Parvin, D.W. Jr. Smith, J.W. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 20-28. (NAL Call No.: DNAL SB245.B42).

0755

Economics of early-season fleahopper control in Texas.

BCOPB. Sterling, W. Hartstack, A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 374-379. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

0756

The economics of early season insect control.

BCOPB. Scott, W.P. Smith, J.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 256-259. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

0757

Effect of bractedness on early season square shed due to thrips, *Frankliniella occidentalis*, in cotton in Arizona.

BCOPB. Flint, H.M. Curtice, N.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. Includes abstract. 1988. p. 298-299. (NAL Call No.: DNAL SB249.N6).

0758

Effect of chlordimeform on tarnished plant bug (*Heteroptera: Miridae*) nymph emergence.

JEENAI. Bailey, J.C. Cathey, G.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1985. v. 78 (6). p. 1485-1487. Includes references. (NAL Call No.: DNAL 421 J822).

0759

Effect of cotton genotypes on the western bigeyed bug (*Heteroptera: Miridae*) (*Geocoris pallens*, breeding for disease resistance).

Oscar G. De Lima, J. Leigh, T. F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 898-902. Includes 17 references. (NAL Call No.: 421 J822).

0760

Effect of cotton seedling infection by cotton-leaf crumple virus on subsequent growth and yield.

JEENAI. Butler, G.D. Jr. Brown, J.K.; Henneberry, T.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1986. v. 79 (1). p. 208-211. Includes references. (NAL Call No.: DNAL 421 J822).

0761

Effect of Dipel (*Bacillus thuringiensis*) on the survival of immature and adult *Hyposoter exiguae* (*Hymenoptera: Ichneumonidae*).

JIVPA. Thoms, E.M. Watson, T.F. Orlando, Fla. : Academic Press. Journal of invertebrate pathology. Mar 1986. v. 47 (2). p. 178-183. Includes references. (NAL Call No.: DNAL 421 J826).

0762

Effect of insecticide residues on survival of *Microplitis croceipes* adults (*Hymenoptera: Braconidae*) in cotton.

FETMA. Powell, J.E. Scott, W.P. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. Dec 1985. v. 68 (4). p. 692-693. Includes references. (NAL Call No.: DNAL 420 F662).

0763

Effect of nectariless cotton on a parasite of *Heliothis zea* (Boddie) eggs.

BCOPB. Treacy, M.F. Benedict, J.H.; Walmsley, M.H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 394-395. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

0764

The effect of nitrogen fertilization upon establishment of *Heliothis virescens* (F.) in cotton.

BCOPB. Teague, T.G. Cate, J.R.; Cothren, J.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide

Cotton Production Research Conferences. 1985. p. 152-155. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

0765

Effect of pesticides on mortality, fecundity, and egg viability of *Geocoris pallens* (Hemiptera: Lygaeidae) (Cotton).

Yokoyama, V.Y. Pritchard, J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 876-879. Includes 15 references. (NAL Call No.: 421 J822).

0766

Effect of seed-treatment methods and soil water content on early growth and acephate uptake by corn and cotton plants.

Hill, R.L. Dalili, B.; Cruse, R.M.; Felsot, A.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 880-884. Includes 16 references. (NAL Call No.: 421 J822).

0767

The effect of short-season cotton systems on pest insect populations.

Henneberry, T.J. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1987. p. 87-90. Includes references. (NAL Call No.: DNAL SB245.B42).

0768

The effect of tarnished plant bugs from different host plants on the growth of cotton.

BCOPB. Carver, C.L. Meredith, W.R. Jr.; Byler, B.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 87-89. Includes 1 references. (NAL Call No.: DNAL SB249.N6).

0769

Effect of the petroleum oil virol on toxicity and chemical residue of fenpropathrin applied against adults of *Bemisia tabaci* (Homoptera: Aleyrodidae) as high- and low-volume sprays.

JEENAI. Ishaaya, I. Austerweil, M.; Frankel, H. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1986. v. 79 (3). p. 596-599. Includes references. (NAL Call No.: DNAL 421 J822).

0770

Effect of the plant growth regulator mepiquat chloride on host plant resistance in cotton to bollworm (Lepidoptera: Noctuidae) (*Heliothis zea*).

Zummo, G.R. Benedict, J.H.; Segers, J.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 922-924. Includes 15 references. (NAL Call No.: 421 J822).

0771

The effect of thrips control on cotton as influenced by insecticides, irrigation and variety.

BCOPB. Johnson, D.R. Kimbrough, J.J.; McConnell, J.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 144-145. Includes references. (NAL Call No.: DNAL SB249.N6).

0772

Effectiveness of sterile boll weevils (Coleoptera: Curculionidae) against naturally occurring populations in commercially grown cotton.

JEENAI. Villavaso, E.J. Roberson, J.L.; Seward, R.W.; Thompson, M.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1986. v. 79 (1). p. 79-83. Includes references. (NAL Call No.: DNAL 421 J822).

0773

Effects of aldicarb on tarnished plant bug (Hemiptera: Miridae) density and cotton yield.

JEENAI. Parrott, W.L. Jenkins, J.N.; Meredith, W.R. Jr.; McCarty, J.C. Jr.; Bailey, J.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1985. v. 78 (1). p. 155-157. Includes references. (NAL Call No.: DNAL 421 J822).

0774

Effects of chemical termination of cotton growth on boll weevil populations and yield in the Lower Rio Grande Valley of Texas.

Wolfenbarger, D.A. Davis, J.W.; Namken, L.N.; Dilday, R.H. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Jan 1986. v. 3 (1). p. 31-40. Includes references. (NAL Call No.: DNAL SB599.J69).

0775

Effects of concentration and application method on decay and residual activity of foliar chlorpyrifos.

JEENAI. Veierov, D. Fenigstein, A.; Melamed-Madjar, V.; Klein, M. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 621-627. Includes references. (NAL Call No.: DNAL 421 J822).

0776

Effects of corolla retention in cotton on *Heliothis* spp. (Lepidoptera: Noctuidae) larval numbers and damage.

JEENAI. Farrar, R.R. Jr. Bradley, J.R. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1984. v. 77 (6). p. 1470-1472. ill. Includes references. (NAL Call No.: DNAL 421 J822).

0777

Effects of cotton fleahopper feeding on earliness, yield and quality of cotton in South Texas.

BCOPB. Parker, R.D. Huffman, R.L.; Walmsley, M.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 217-218. (NAL Call No.: DNAL SB249.N6).

0778

Effects of cropping history on early and late season pink bollworm flight in Arizona.

Manley, D.G. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. July 1986. v. 3 (3). p. 227-232. Includes references. (NAL Call No.: DNAL SB599.J69).

0779

The effects of disruption on cotton insect spatial patterns.

BCOPB. Young, J.H. Willson, L.J.; Stark, J.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 281-282. Includes references. (NAL Call No.: DNAL SB249.N6).

0780

Effects of environmental factors on phase variation in larval cotton leafworms *Alabama argillacea* (Lepidoptera: Noctuidae).

AESAAI. Johnson, S.J. Foil, L.D.; Hammond, A.M.; Sparks, T.C.; Church, G.E. College Park, Md. : The Society. Annals of the Entomological Society of America. Jan 1985. v. 78 (1). p. 35-40. ill. Includes references. (NAL Call No.: DNAL 420 EN82).

0781

Effects of ethephon on boll weevil (Coleoptera: Curculionidae) population development, cotton fruiting, and boll opening.

JEENAI. Henneberry, T.J. Meng, T.; Hutchison, W.D.; Bariola, L.A.; Deeter, B. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 628-633. Includes references. (NAL Call No.: DNAL 421 J822).

0782

Effects of gossypure and a pyrethroid insecticide on pink bollworm infestations and relationships of trap catches to infestations.

BCOPB. Adams, C.J. Beasley, C.A.; Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 188-193. Includes 7 references. (NAL Call No.: DNAL SB249.N6).

0783

Effects of high temperature on tobacco budworm (Lepidoptera: Noctuidae) reproduction, diapause, and spermatocyst development.

JEENAI. Henneberry, T.J. Butler, G.D. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1986. v. 79 (2). p. 410-413. Includes references. (NAL Call No.: DNAL 421 J822).

0784

Effects of insect management schemes on cotton yield, maturity, and fiber properties.

TFHSA. Lentz, G.L. Knoxville, Tenn. : The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Apr/June 1984. (130). p. 2-5. Includes references. (NAL Call No.: DNAL 100 T25F).

0785

The effects of insecticides on the spatial distribution of cotton insects.

BCOPB. Young, L.J. Young, J.H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 323-324. Includes references. (NAL Call No.: DNAL SB249.N6).

0786

Effects of leaf and bract isolines on spray penetration and insecticidal efficacy.

BCOPB. James, D. Jones, J.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 395-396. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

0787

Effects of mepiquat chloride 1,1-dimethylpiperidinium chloride on allelochemicals of cotton.

JMSSA. Jenkins, J.N. Hedin, P.A.; McCarty, J.C. Jr.; Parrott, W.L. Booneville, Miss. : The Academy. Journal of the Mississippi Academy of Sciences. 1987. v. 32. p. 73-78. Includes references. (NAL Call No.: DNAL 500 M697).

0788

Effects of pesticides on *Trichogramma* spp.

Bull, D.L. Coleman, R.J. College Station : Southwestern Entomological Society. Supplement to the southwestern entomologist. Literature review. Dec 1985. (8). p. 156-168. Includes references. (NAL Call No.: DNAL QL461.S65 SUPPL.).

0789

Effects of PIX, a plant growth regulator, on allelochemical content of cotton and growth of tobacco budworm larvae (*Lepidoptera: Noctuidae*).

JEENAI. Mulrooney, J.E. Hedin, P.A.; Parrott, W.L.; Jenkins, J.N. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1100-1104. Includes references. (NAL Call No.: DNAL 421 J822).

0790

Effects of seed fungicides and in-furrow pesticides on plant stands and vigor of cotton.

BCOPB. Minton, E.B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. Includes abstract. 1988. p. 17. (NAL Call No.: DNAL SB249.N6).

0791

Effects of sunlight, cotton foliage surface, and temperature on the infectivity of cytoplasmic polyhedrosis virus to *Heliothis virescens* larvae (*Lepidoptera: Noctuidae*).

JEENAI. Ali, S. Sikorowski, P.P. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1986. v. 79 (2). p. 364-367. Includes references. (NAL Call No.: DNAL 421 J822).

0792

Effects of temperature on feeding, development, fecundity, and longevity of *Nabis roseipennis* (*Hemiptera: Nabidae*) fed tobacco budworm (*Lepidoptera: Noctuidae*) larvae and tarnished plant bug (*Hemiptera: Miridae*) nymphs.

EVETEX. Nadgauda, D. Pitre, H.N. College Park, Md. : Entomological Society of America. Environmental entomology. June 1986. v. 15 (3). p. 536-539. Includes references. (NAL Call No.: DNAL QL461.E532).

0793

Effects of the herbicide monosodium methanearsonate on insect and spider populations in cotton fields.

JEENAI. Baker, R.S. Laster, M.L.; Kitten, W.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1985. v. 78 (6). p. 1481-1484. Includes references. (NAL Call No.: DNAL 421 J822).

0794

Effects of trap type and placement on male pink bollworm moth captures.

BCOPB. Beasley, C.A. Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 306-309. Includes references. (NAL Call No.: DNAL SB249.N6).

(PESTS OF PLANTS - INSECTS)

0795

The effects of various insecticides and combinations against bollworm and tobacco budworm in West Texas, 1987.

BCOPB. Multer, W. Minzenmayer, R.; Allen, C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 360-362. Includes references. (NAL Call No.: DNAL SB249.N6).

0796

Effects of within-plant distribution of *Heliothis zea* (Boddie) (Lepidoptera: Noctuidae) eggs and larvae on larva development and survival on cotton.

JEENAI. Farrar, R.R. Jr. Bradely, J.R. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1985. v. 78 (6). p. 1233-1237. Includes references. (NAL Call No.: DNAL 421 J822).

0797

Efficacy and economic returns from various insecticide combinations applied for tobacco budworm control in the Brazos River Valley.

BCOPB. Robinson, J.R.C. Lacewell, R.D.; Plapp, F.W.; Campanhola, C.; Teetes, G.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 347-349. (NAL Call No.: DNAL SB249.N6).

0798

Efficacy of *Heliothis* pathogens.

SCSBA. Yearian, W.C. Hamm, J.J.; Carner, G.R. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Literature review. Feb 1986. (316). p. 92-103. Includes 98 references. (NAL Call No.: DNAL 100 G29S0).

0799

Efficacy of insecticides and insecticide carriers for control of insect and mite pests in cotton and sorghum, 1984.

Fitt, J.R. Jr. Teetes, G.L. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. Mar 1985. (4298). 13 p. Includes references. (NAL Call No.: DNAL 100 T31P).

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Efficacy of insecticides applied ultra-low volume in vegetable oils.

Luttrell, R.G. Philadelphia, Pa. : ASTM, c1985. Pesticide formulations and application systems : fourth symposium : a symposium sponsored by ASTM Committee E-35 on Pesticides, New Orleans, La., 2-3 Nov. 1983 / Thomas M. Kaneko, Larry D. Spicer, editors. p. 67-77. Includes references. (NAL Call No.: DNAL SB950.93.P47 1985).

0801

Efficacy of LARVIN brand Thiodicarb insecticide for control of fall armyworm (*Spodoptera frugiperda*) and beet armyworm (*Spodoptera exigua*) on cotton.

Gonzales, F.J. Allen, J.L. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 104-106. (NAL Call No.: DNAL SB245.B42).

0802

Efficacy of new insecticides against the bollworm and their effects on cotton yield, maturity, and fiber properties in west Tennessee.

Lentz, G.L. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Jan 1985. v. 2 (1). p. 6-12. Includes references. (NAL Call No.: DNAL SB599.J69).

0803

Efficacy of selected insecticides on pink bollworm oviposition in cotton.

BCOPB. Hutchison, W.D. Henneberry, T.J.; Beasley, C.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 309-311. Includes references. (NAL Call No.: DNAL SB249.N6).

0804

Efficacy of synthetic pyrethroids against major cotton pests in the Western U.S.

BCOPB. Watson, T.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 236-237. Includes references. (NAL Call No.: DNAL SB249.N6).

0805

Elucidating mechanisms of tobacco budworm resistance to allelochemicals by dietary tests with insecticide synergists.

PCBPB. Hedin, P.A. Parrott, W.L.; Jenkins, J.N.; Mulrooney, J.E.; Menn, J.J. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. Sept 1988. v. 32 (1). p. 55-61. Includes references. (NAL Call No.: DNAL SB951.P49).

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Enhanced fitness of radiation sterilized cotton boll weevil through genetic engineering.

BCOPB. North, D.T. Enfield, F.D.; Villavaso, E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 247-249. Includes references. (NAL Call No.: DNAL SB249.N6).

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Entomology.

AKFRAC. Phillips, J.R. Tugwell, N.P. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. July/Aug 1988. v. 37 (4). p. 3. (NAL Call No.: DNAL 100 AR42F).

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Establishment of an ovarian cell line in the cotton bollworm *Heliothis armigera* and in vitro replication of its cytoplasmic polyhedrosis virus.

Su, D.M. Shen, Z.J.; Yue, Y.X. San Diego : Academic Press, c1987. Biotechnology in invertebrate pathology and cell culture / edited by Karl Maramorosch. p. 375-383. ill. Includes references. (NAL Call No.: DNAL TP248.I57B56).

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Estimating fruit value with TEXCIM.

BCOPB. Hartstack, A.W. Sterling, W.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 370-374. Includes references. (NAL Call No.: DNAL SB249.N6).

0810

Evaluation of avermectin B1 (MK 936) against *Heliothis* spp. in the laboratory and in field plots and against the boll weevil in field plots.

Wright, J.E. Jenkins, J.N.; Villavaso, E.J. College Station : Southwestern Entomological Society. Supplement to the southwestern entomologist. Mar 1985. (7). p. 11-16. ill. Includes references. (NAL Call No.: DNAL QL461.S65 SUPPL.).

0811

Evaluation of candidate chemosterilants for the boll weevil / by Jack W. Haynes ... et al. .

Haynes, Jack W. Washington, D.C. : Agricultural Research Service, U.S. Dept. of Agriculture in cooperation with Mississippi State University Agricultural Experiment Station, 1971. Cover title. 24 p. ; 26 cm. Bibliography: p. 24. (NAL Call No.: DNAL A281.9 Ag8 no.120).

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Evaluation of chlordimeform for cotton yield enhancement.

JEENAI. Cathey, G.W. Bailey, J.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1987. v. 80 (3). p. 670-674. Includes references. (NAL Call No.: DNAL 421 J822).

0813

An evaluation of cythion RTU for cotton boll weevil control.

BCOPB. Harris, F.A. Jany, W.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 477-479. Includes 1 references. (NAL Call No.: DNAL SB249.N6).

0814

Evaluation of diflubenzuron for boll weevil control in short-season cotton.

Treacy, M.F. Benedict, J.H.; Parker, R.D. College Station, Tex. : The Station. PR - Texas Agricultural Experiment Station. July 1987. (4532). 7 p. Includes references. (NAL Call No.: DNAL 100 T31P).

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Evaluation of insecticides for control of early season cotton pests in the loessial hill sections of northeast Louisiana.

BCOPB. Ratchford, K.J. Pavloff, A.M.; Graves, J.B.; Burris, E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 231-233. Includes references. (NAL Call No.: DNAL SB249.N6).

0816

Evaluation of multiple early-season applications of selected insecticides on cotton.

BCOPB. Treacy, M.F. Schmidt, K.M.; Benedict, J.H.; Hopkins, S.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 202-203. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

0817

Evaluation of seed and at-planting in-furrow insecticides on cotton grown in the Coastal Bend of Texas.

BCOPB. Parker, R.D. Huffman, R.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 200-201. Includes 4 references. (NAL Call No.: DNAL SB249.N6).

0818

Evaluation of the importance of the striped lynx spider, *Oxyopes salticus* (Araneae: Oxyopidae), as a predator in Texas cotton.

EVETEX. Nyffeler, M. Dean, D.A.; Sterling, W.L. College Park, Md. : Entomological Society of America. Environmental entomology. Oct 1987. v. 16 (5). p. 1114-1123. Includes references. (NAL Call No.: DNAL QL461.E532).

0819

Evaluation of the selective carbamate, U-56295, for control of the bollworm complex, *Heliothis* spp. (Lepidoptera: Noctuidae) in cotton.

JEENAI. Bowman, J.W. Gemrich, E.G. II; Hope, L.H.; Lee, B.L.; Parham, P.H.; Terrell, M.D. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1985. v. 78 (4). p. 940-946. ill. Includes references. (NAL Call No.: DNAL 421 J822).

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An evaluation of three early maturing cotton cultivars for production potential and insect damage in reduced- and conventional-tillage systems.

Roach, S.H. Culp, T.W. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. July 1984. v. 1 (3). p. 249-255. Includes references. (NAL Call No.: DNAL SB599.J69).

0821

Evaluation of T277-2-6 for boll weevil resistance in Texas, 1986.

BCOPB. Walker, J.K. Smith, C.W.; Reina, J.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 337-340. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Ridgway, R.L. Inscoc, M.N.; Davis, J.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 203-204. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

0823

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BCOPB. Moore, R.C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 296-298. Includes references. (NAL Call No.: DNAL SB249.N6).

0824

Factors influencing pyrethroid toxicity in pink bollworm (Lepidoptera: Gelechiidae): implications for resistance management.

JEENAI. Schouest, L.P. Jr. Miller, T.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 431-436. Includes references. (NAL Call No.: DNAL 421 J822).

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BCOPB. Smith, R.H. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 134-136. (NAL Call No.: DNAL SB249.N6).

0826

Feeding and movement on cotton of *Heliothis* species (Lepidoptera:Noctuidae) parasitized by *Microplitis croceipes* (Hymenoptera: Braconidae).

EVETEX. Hopper, K.R. King, E.G. College Park, Md. : Entomological Society of America. Environmental entomology. Dec 1984. v. 13 (6). p. 1654-1660. Includes references. (NAL Call No.: DNAL QL461.E532).

0827

Feeding dynamics of the black cutworm, *Agrotis ipsilon* (Lepidoptera: Noctuidae), in cotton.

JEENAI. Foster, M.A. Gaylor, M.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1986. v. 79 (3). p. 840-842. Includes references. (NAL Call No.: DNAL 421 J822).

0828

Feeding punctures of mirids and other plant-sucking insects and their effect on cotton /by W.V. King and W.S. Cook.

King, W. V. 1888-. Cook, W. S. 1898-. Washington : U.S. Dept. of Agriculture, 1932. Caption title. 12 p., 3 p. of plates : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84Te no.296).

0829

Field evaluation of a sequential sampling plant for pink bollworm eggs.

BCOPB. Stroschein, D.L. Beasley, C.A.; Hutchison, W.D.; Martin, J.M.; Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 315-317. Includes references. (NAL Call No.: DNAL SB249.N6).

0830

Field evaluation of insecticides for control of cotton insects.

BCOPB. Fitt, J.R. Jr. Teetes, G.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 184-186. Includes 1 references. (NAL Call No.: DNAL SB249.N6).

0831

Field performance of some new cotton strains with resistance to *Heliothis* spp.

BCOPB. Jones, J.E. Burris, E.; Caldwell, W.D.; Marshall, J.G.; Dickson, J.I.; Clower, D.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 94-96. Includes references. (NAL Call No.: DNAL SB249.N6).

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Field resistance to boll weevils among primitive cottons.

Jones, J.E. Dickson, J.I. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. 1986? . p. 18-22. Includes references. (NAL Call No.: DNAL 100 L936).

0833

Field technique for indentifying causes of pinhead square shed in cotton.

JEENAI. Williams, L. III. Phillips, J.R.; Tugwell, N.P. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1987. v. 80 (2). p. 527-531. ill. Includes references. (NAL Call No.: DNAL 421 J822).

0834

Fighting back.

CTTNA. Memphis : s.n. . Cotton. International edition. 1987. (54th). p. 60, 62. ill. (NAL Call No.: DNAL 72.8 C8214I).

0835

Fumigant action of various insecticides on the egg and first larval stage of *Heliothis zea*.

Horowitz, A.R. Toscano, N.C. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Jan 1988. v. 5 (1). p. 5-10. Includes references. (NAL Call No.: DNAL SB599.J69).

0836

***Goniozus pakmanus* (Hymenoptera: Bethyridae), a new species imported into California for the biological control of pink bollworm, *Pectinophora gossypiella* (Lepidoptera: Gelechiidae).**

ETMNA6. Gorodh, G. Philadelphia, Pa. : American Entomological Society. Entomological news. Nov/Dec 1984. v. 95 (5). p. 207-211. ill. Includes references. (NAL Call No.: DNAL 421 EN88).

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0837

Goodbye boll weevil--hello again cotton!.

AGREA. Adams, S. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Oct 1987. v. 35 (9). p. 9-10. ill. (NAL Call No.: DNAL 1.98 AG84).

0838

The GOSSYM model: its use in cotton insect control.

BCOPB. Fye, R.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 166-167. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

0839

Grandlure: use in boll weevil control and eradication programs in the United States.

FETMA. Dickerson, W.A. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. Mar 1986. v. 69 (1). p. 147-153. ill. Includes references. (NAL Call No.: DNAL 420 F662).

0840

Growers seek assessment for weevil eradication.

Shannon, M. Tempe, Ariz. : Arizona Farmer-Stockman. Arizona farmer-stockman. Apr 1987. v. 66 (4). p. 8-9. (NAL Call No.: DNAL 6 AR44).

0841

Growth and development of the pink bollworm, *Pectinophora gossypiella* (Lepidoptera: Gelechiidae), on bolls of cotton grown in enriched carbon dioxide atmospheres.

EVETEX. Akey, D.H. Kimball, B.A.; Mauney, J.R. College Park, Md. : Entomological Society of America. Abstract: The pink bollworm, *Pectinophora gossypiella* (Saunders), was reared on the bolls of cotton plants grown in CO₂-enriched (649 ul/liter) and ambient CO₂ (371 ul/liter) chambers and in two open field plots, one with free-air CO₂ enrichment (522 ul/liter) and one without enrichment (ambient CO₂, 360 ul/liter). The effects of increased CO₂ levels on growth and development were examined. There was no difference in pupal weights of pink bollworm raised on CO₂-enriched cotton compared with those raised on ambient CO₂ cotton (26.80 versus 26.64 mg, respectively). Also, there was no difference in developmental time (21-27 d). Analysis of percent seed damage by larvae showed no differences between CO₂-enriched and ambient CO₂ cotton. These results were attributed to

the nutritional qualities of the seed remaining the same (specifically the carbon/nitrogen ratio) despite CO₂ and photosynthetic changes in the plant. Environmental entomology. June 1988. v. 17 (3). p. 452-455. Includes references. (NAL Call No.: DNAL QL461.E532).

0842

Hear no weevil see no weevil, speack no weevil.

Shannon, M. Tempe, Ariz. : Arizona Farmer-Stockman. Arizona farmer-stockman. Apr 1988. v. 67 (4). p. 10-11. ill. (NAL Call No.: DNAL 6 AR44).

0843

HELDMSG: Heliothis (Lepidoptera: Noctuidae) spp. damage subroutine for the cotton model GOSSYM.

Thomas, W.M. Beltsville, Md. : The Service. ARS - U.S. Department of Agriculture, Agricultural Research Service. Sept 1988. (72). 59 p. ill. Includes references. (NAL Call No.: DNAL aS21.R44A7).

0844

Heliothis spp. and selected natural enemy populations in cotton: a comparison of three insect control programs in Arkansas (1981-82) and North Carolina (1983).

King, E.G. Coleman, R.J.; Phillips, J.R.; Dickerson, W.A. College Station : Southwestern Entomological Society. Supplement to the southwestern entomologist. Dec 1985. (8). p. 71-98. Includes references. (NAL Call No.: DNAL QL461.S65 SUPPL.).

0845

A Heliothis spp. damage submodel for the cotton model GOSSYM.

BCOPB. Thomas, W.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 280. (NAL Call No.: DNAL SB249.N6).

0846

A Heliothis spp. damage submodel for the cotton model GOSSYM.

BCOPB. Thomas, W.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 360. (NAL Call No.: DNAL SB249.N6).

0847

High-yielding, short-season cotton production in Arizona.

Tollefson, S. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. 1987. p. 73-75. (NAL Call No.: DNAL SB245.B42).

0848

Highlights of the 1984 Cotton Insect Research and Control Conference.

Bull, D.L. Phillips, J.R. Memphis, Tenn. : National Cotton Council of America. Proceedings of the ... Beltwide Cotton Production-Mechanization Conference. 1984. 1984. p. 46-49. (NAL Call No.: 72.9 C8292).

0849

How the boll weevil ingests poison /by Edgar F. Grossman.

Grossman, Edgar F. Gainesville, Fla. : University of Florida Agricultural Experiment Station, 1928. Cover title. p. 145 -172 : ill., charts ; 23 cm. Includes bibliographical references. (NAL Call No.: DNAL 100 F66S (1) no.192).

0850

An illustrated and annotated key to the cotton spiders of Arkansas.

JESCEP. Heiss, J.S. Harris, V.E.; Phillips, J.R. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Jan 1988. v. 23 (1). p. 1-35. ill. Includes references. (NAL Call No.: DNAL QL461.G4).

0851

An illustrated look at insecticide resistance and how it develops.

Graves, J.B. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. Literature review. 1987. p. 29-31. Includes references. (NAL Call No.: DNAL SB245.B42).

0852

The impact of cotton plant resistance on spider mites and their natural enemies.

HILGA. Trichilo, P.J. Leigh, T.F. Berkeley, Calif. : The Station. Hilgardia - California Agricultural Experiment Station. Aug 1986. v. 54 (5). p. 1-20. Includes references. (NAL Call No.: DNAL 100 C12H).

0853

Impact of early season use of selected insecticides on cotton arthropod populations and yield.

JEENAI. Scott, W.P. Smith, J.W.; Snodgrass, G.L. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1986. v. 79 (3). p. 797-804. Includes references. (NAL Call No.: DNAL 421 J822).

0854

Impact of synthetic pyrethroids on beneficial insects from cotton grown in the Southern Piedmont.

House, G.J. All, J.N.; Short, K.T.; Law, S.E. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. Apr 1985. v. 2 (2). p. 161-166. Includes references. (NAL Call No.: DNAL SB599.J69).

0855

Improved sampling for spider mites on Imperial Valley cotton.

CAGRA. Mollet, J.A. Sevacherian, V. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Sept 1984. v. 38 (9). p. 28-30. (NAL Call No.: DNAL 100 C12CAG).

0856

Induced immunelike resistance to spider mites in cotton.

CAGRA. Karban, R. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1986. v. 40 (11/12). p. 13-15. ill. (NAL Call No.: DNAL 100 C12CAG).

0857

Infesting cotton with tarnished plant bug (Heteroptera: Miridae) nymphs reared by improved laboratory rearing methods.

JEENAI. Bailey, J.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1410-1412. Includes references. (NAL Call No.: DNAL 421 J822).

0858

Influence of delayed mating on egg production, egg viability, mating, and longevity of female pink bollworm (Lepidoptera: Gelechiidae).

EVETEX. Lingren, P.D. Warner, W.B.; Henneberry, T.J. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1988. v. 17 (1). p. 86-89. Includes references. (NAL Call No.: DNAL QL461.E532).

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0859

Influence of field margins on densities of cotton fruit and on boll weevils and their damage during late season.

SENTD. Slosser, J.E. Boring, E.P. III; Price, J.R.; Puterka, G.J. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Sept 1987. v. 12 (3). p. 253-258. Includes references. (NAL Call No.: DNAL QL461.S65).

0860

Influence of host plant on deterrence by azadirachtin of feeding by fall armyworm larvae (Lepidoptera: Noctuidae).

JEENAI. Raffa, K.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1987. v. 80 (2). p. 384-387. Includes references. (NAL Call No.: DNAL 421 J822).

0861

Influence of insect damage and insecticide spray regimens on cotton yield in 1981 and 1982.

JEENAI. Hopkins, A.R. Moore, R.F.; James, W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1985. v. 78 (1). p. 263-268. Includes references. (NAL Call No.: DNAL 421 J822).

0862

Influence of nectaried and nectariless cottons, *Gossypium hirsutum*, on field populations of spider mites, *Tetranychus urticae*.

GENSAB. Bailey, J.C. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. Oct 1984. v. 19 (4). p. 437-439. Includes references. (NAL Call No.: DNAL QL461.G4).

0863

Inheritance of methomyl resistance in the tobacco budworm (Lepidoptera: Noctuidae).

JEENAI. Roush, R.T. Wolfenbarger, D.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1020-1022. Includes references. (NAL Call No.: DNAL 421 J822).

0864

Inhibition of chemical communication between male and female *Heliothis zea* by sublethal amounts of permethrin.

BCOPB. Moore, R.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 317-318. Includes references. (NAL Call No.: DNAL

SB249.N6).

0865

Insect control for earliness: a producer's viewpoint.

Hargett, J. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 30-31. (NAL Call No.: DNAL SB245.B42).

0866

Insect control for earliness: strategy and basis.

Roof, M.E. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 28-30. Includes references. (NAL Call No.: DNAL SB245.B42).

0867

Insect management requirements and benefits with short-season production systems.

Norman, J.W. Jr. Henneberry, T.J. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. 1987. p. 85-87. Includes references. (NAL Call No.: DNAL SB245.B42).

0868

Insect pest management potential of cottons produced in narrow-row, short-season cultures in the irrigated Far West.

Walhood, V.T. Henneberry, T.J.; Bariola, L.A.; Ballard, D.L.; Brown, C. Oakland : The Region. Agricultural research results ARR-W - U.S. Dept. of Agriculture, Science and Education Administration, Agricultural Research, Western Region. Feb 1983. (30). 24 p. Includes references. (NAL Call No.: DNAL aS21.A75U68).

0869

Insecticide cross-resistance in pyrethroid-resistant strains of tobacco budworm (Lepidoptera: Noctuidae).

JEENAI. Leonard, B.R. Sparks, T.C.; Graves, J.B. Lanham, Md. : Entomological Society of America. Journal of economic entomology. Dec 1988. v. 81 (6). p. 1529-1535. Includes references. (NAL Call No.: DNAL 421 J822).

0870

Insecticide interference with Microplitis demolitor (Hymenoptera: Braconidae) parasitization of Heliothis zea (Lepidoptera: Noctuidae).
 JEENAI. Culin, J.D. Dubose, W.P. III. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1188-1191. Includes references. (NAL Call No.: DNAL 421 J822).

0871

Insecticide resistance--a continuing challenge.
 BCOPB. Clower, D.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 214-215. Includes references. (NAL Call No.: DNAL SB249.N6).

0872

Insecticide resistance in the sweetpotato whitefly, Bemisia tabaci (Homoptera: Aleyrodidae).
 JEENAI. Prabhaker, N. Coudriet, D.L.; Meyerdirk, D.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1985. v. 78 (4). p. 748-752. Includes references. (NAL Call No.: DNAL 421 J822).

0873

Insecticide selection and use rates: effects on secondary pests.
 BCOPB. Luttrell, R.G. Reed, J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 144-147. Includes 7 references. (NAL Call No.: DNAL SB249.N6).

0874

Insecticide use in cotton and the value of predators and parasites for managing Heliothis.
 BCOPB. King, E.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada.~ Literature review. 1986. p. 155-162. ill. Includes 46 references. (NAL Call No.: DNAL SB249.N6).

0875

Insecticide use on cotton in 1979 /by Robert McDowell, Cleveland Marsh, Craig Osteen. --.
 McDowell, Robert. Marsh, Cleveland.; Osteen, Craig D. Washington, D.C. : Natural Resource Economics Division, Economic Research Service, U.S. Dept. of Agriculture, 1982. Cover title: Insecticide use on cotton in the United States, 1979.~ "May 1982.". iii, 51 p. ; 28 cm. --. Bibliography: p. 26. (NAL Call No.: DNAL aSB951.5.M2).

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BCOPB. Bernhardt, J.L. Phillips, J.R.; Tugwell, N.P. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 156-160. ill. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Riley, S.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 228-230. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Scott, W.P. Snodgrass, G.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 363-364. Includes references. (NAL Call No.: DNAL SB249.N6).

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Gonzales, F.J. Allen, J.L. Memphis : National Cotton Council. Proceedings of the ... Beltwide Cotton Production Conference. 1985. p. 64-66. (NAL Call No.: DNAL SB245.B42).

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EVETEX. Stadelbacher, E.A. Powell, J.E.; King, E.G. College Park, Md. : Entomological Society of America. Environmental entomology. Oct 1984. v. 13 (5). p. 1167-1172. Includes references. (NAL Call No.: DNAL QL461.E532).

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BCOPB. Luttrell, R.G. Graves, J.B.; Phillips, J.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 232-236. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Herzog, G.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 231-232. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Leonard, B.R. Graves, J.B.; Pavloff, A.M.; Burris, E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 268-272. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Graves, J.B. Powell, J.D.; Farris, M.E.; Micinski, S.; Story, R.N. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 229-231. Includes references. (NAL Call No.: DNAL SB249.N6).

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Pesticide and seasonal effects on within-plant distribution of *Tetranychus cinnabarinus* (Boisduval) (Acarina: Tetranychidae) in cotton (California).

Mollet, J.A. Sevacherian, V. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 925-928. Includes 16 references. (NAL Call No.: 421 J822).

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The phenotypic expression of pyrethroid resistance in *Heliothis* and implications for resistance management.

BCOPB. Roush, R.T. Luttrell, R.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 220-224. Includes references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Dickerson, W.A. Ridgway, R.L.; Planer, F.R.; Brazzel, J.R.; Bradway, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 231-232. Includes 8 references. (NAL Call No.: DNAL SB249.N6).

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Pheromones in pest detection and pest management.

BCOPB. Rummel, D.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 165-166. Includes 14 references. (NAL Call No.: DNAL SB249.N6).

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JEENAI. Brito, R.M. Stern, V.M.; Sances, F.V. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1217-1220. Includes references. (NAL Call No.: DNAL 421 J822).

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JEENAI. Davenport, A.P. Wright, D.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1151-1153. Includes references. (NAL Call No.: DNAL 421 J822).

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Phytophagous stink bugs in North Carolina cotton: an evaluation of damage potential.

BCOPB. Barbour, K.S. Bradley, J.R. Jr.; Bachelier, J.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 280-282. Includes references. (NAL Call No.: DNAL SB249.N6).

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Pink bollworm control in Southwestern desert cotton. I. A field-oriented simulation model.

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HILGA. Stone, N.D. Gutierrez, A.P. Berkeley, Calif. : The Station. Hilgardia - California Agricultural Experiment Station. Dec 1986. v. 54 (9). p. 25-41. Includes references. (NAL Call No.: DNAL 100 C12H).

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HILGA. Stone, N.D. Gutierrez, A.P.; Getz, W.M.; Norgaard, R. Berkeley, Calif. : The Station. Hilgardia - California Agricultural Experiment Station. Dec 1986. v. 54 (9). p. 42-56. Includes references. (NAL Call No.: DNAL 100 C12H).

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BCOPB. Natwick, E.T. Staten, R.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 262-267. Includes references. (NAL Call No.: DNAL SB249.N6).

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Beasley, C.A. Henneberry, T.J. Beltsville, Md. : The Service. ARS - United States Department of Agriculture, Agricultural Research Service. Nov 1985. (39). 20 p. Includes references. (NAL Call No.: DNAL aS21.R44A7).

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Pink bollworm (Lepidoptera: Gelechiidae) egg hatch, larval success, and pupal and adult survival on okra- and normal-leaf cotton.

JEENAI. Wilson, F.D. George, B.W.; Fry, K.E.; Szaro, J.L.; Hennenberry, T.J.; Clayton, T.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1986. v. 79 (6). p. 1671-1675. Includes references. (NAL Call No.: DNAL 421 J822).

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Pink bollworm (Lepidoptera: Gelechiidae): large-scale field trials with a high-rate gossypure formulation.

JEENAI. Staten, R.T. Flint, H.M.; Weddle, R.C.; Quintero, E.; Zarate, R.E.; Finnell, C.M.; Hernandez, M.; Yamamoto, A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1267-1271. Includes references. (NAL Call No.: DNAL 421 J822).

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Pink bollworm: prepupal and pupal development and adult emergence patterns as affected by soil temperature and moisture.

SENTD. Henneberry, T.J. Clayton, T.E. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. June 1986. v. 11 (2). p. 101-106. Includes references. (NAL Call No.: DNAL QL461.S65).

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Pink bollworm: relationships between timing of initial insecticide applications and season-long control.

BCOPB. Beasley, C.A. Adams, C.J.; Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 260-262. Includes references. (NAL Call No.: DNAL SB249.N6).

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Pink bollworm resistance, lint yield, and earliness of cotton isolines in a resistant genetic background.

CRPSAY. Wilson, F.D. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1987. v. 27 (5). p. 957-960. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Pink bollworm resistance, lint yield, and lint yield components of okra-leaf cotton in different genetic backgrounds.

CRPSAY. Wilson, F.D. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1986. v. 26 (6). p. 1164-1167. Includes 17 references. (NAL Call No.: DNAL 64.8 C883).

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Pink bollworm spring emergence related to weather parameters.

BCOPB. Adams, C.J. Beasley, C.A.; Henneberry, T.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 276-281. Includes references. (NAL Call No.: DNAL SB249.N6).

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The pink bollworm with special reference to steps taken by the Department of Agriculture to prevent its establishment in the United States /by W.D. Hunter.

Hunter, W. D. 1875-1925. Washington, D.C. : U.S. Dept. of Agriculture, 1918. Caption title.~ "August 30, 1918.". 27 p. : ill. ; 24 cm. Bibliography: p. 27. (NAL Call No.: DNAL 1 Ag84B no.723).

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The pink bollworm, with special reference to steps taken by the Department of Agriculture to prevent its establishment in the United States /by W.D. Hunter.

Hunter, W. D. 1875-1925. Washington, D.C. : U.S. Dept. of Agriculture, 1926. Caption title.~ "June, 1926.". 31 p. : ill., 1 map ; 23

cm. Bibliography: p. 29-30. (NAL Call No.: DNAL 1 Ag84B no.1397).

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The plant bug issue--a dilemma for the Mississippi cotton producer.

Parvin, D.W. Jr. Mississippi State : The Station. Staff paper series - Mississippi State University, Department of Agricultural Economics, Mississippi Agricultural and Forestry Experiment Station. May 1985. (71). 17 p. (NAL Call No.: DNAL S79.S73).

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Plant bugs: an update.

BCOPB. Luttrell, R.G. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 131-133. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

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Plant growth regulators for pink bollworm and boll weevil control.

BCOPB. Bariola, L.A. Henneberry, T.J.; Meng, T. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 235-238. Includes 6 references. (NAL Call No.: DNAL SB249.N6).

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Plant resistance to the bollworm-budworm complex in cotton.

Jones, J.E. Dickson, J.I.; Burris, E.; Caldwell, W.D.; Marshall, J.G.; Graves, J.B.; Pavloff, A.M.; Holoubek, B.B.; Aguiard, W. Baton Rouge : The Department. Report of projects - Louisiana Agricultural Experiment Station, Department of Agronomy. Includes statistical data. 1986? . p. 4-11. (NAL Call No.: DNAL 100 L936).

0976

Population dynamics and within-plant distribution of the western flower thrips (Thysanoptera: thripidae), an early-season predator of spider mites infesting cotton.

EVETEX. Pickett, C.H. Wilson, L.T.; Gonzalez, D. College Park, Md. : Entomological Society of America. Abstract: The season-long population dynamics and within-plant distribution of the thrips *Frankliniella occidentalis* (Pergande) were examined. Thrips density was highly variable and peaked in midseason. Fluctuations

in density in combination with changing age structure of the population suggest that migration plays an important role in the population dynamics of thrips. The seasonal peak in thrips density corresponded with the period of peak bloom. Adult thrips were strongly attracted to cotton flowers, which suggests that the migratory nature of thrips is in part caused by their preference for flower structures. Within-plant distribution of thrips on mainstem node leaves is broad and largely overlaps that of spider mites. *Tetranychus* spp., a prey of thrips in early-season cotton. The combined mainstem and branch node distribution of thrips shows that during most of the season, thrips are centrally located in the plant canopy. Environmental entomology. June 1988. v. 17 (3). p. 551-559. Includes references. (NAL Call No.: DNAL QL461.E532).

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Population management of boll weevil in sustainable cotton production systems.

BCOPB. Cate, J.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Literature review. 1988. p. 249-254. Includes references. (NAL Call No.: DNAL SB249.N6).

0978

Populations and control of pink bollworm, *Pectinophora gossypiella* (Saunders), in short- and full-season cotton production systems in Imperial Valley, CA.

SENTD. Bariola, L.A. Henneberry, T.J.; Ehlig, C.F.; Brown, C.M. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Sept 1985. v. 10 (3). p. 156-162. Includes references. (NAL Call No.: DNAL QL461.S65).

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Position of the uppermost white bloom defined by node counts as an indicator for termination of insecticide treatments in cotton.

JEENAI. Bernhardt, J.L. Phillips, J.R.; Tugwell, N.P. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1986. v. 79 (6). p. 1430-1438. Includes references. (NAL Call No.: DNAL 421 J822).

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Potato leafhopper (Homoptera: Cicadellidae) feeding on seedling cotton.

JEENAI. Womack, C.L. Schuster, M.F. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1259-1263. Includes references. (NAL Call No.: DNAL 421 J822).

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Potency of combinations of *Bacillus thuringiensis* and chemical insecticides on *spodoptera littoralis* (Lepidoptera: Noctuidae) (Biological control, cotton leafworm).
Salama, H.S. Foda, M.S.; Zaki, F.N.; Moawad, S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1984. v. 77 (4). p. 885-890. Includes 21 references. (NAL Call No.: 421 J822).

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Potential for evolution of resistance to pheromones: interindividual and interpopulational variation in chemical communication system of pink bollworm moth.
JCECD. Haynes, K.F. Gaston, L.K.; Pope, M.M.; Baker, T.C. New York, N.Y. : Plenum Press. Journal of chemical ecology. Nov 1984. v. 10 (11). p. 1551-1565. Includes references. (NAL Call No.: DNAL QD415.A1J6).

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Potential for evolution of resistance to pheromones: worldwide and local variation in chemical communication system of pink bollworm moth, *Pectinophora gossypiella*.
JCECD. Haynes, K.F. Baker, T.C. New York, N.Y. : Plenum Press. Journal of chemical ecology. July 1988. v. 14 (7). p. 1547-1560. maps. Includes references. (NAL Call No.: DNAL QD415.A1J6).

0984

The potential importance of late spring-early summer bollworm moth migration to cotton production.
BCOPB. Sparks, A.N. Raulston, J.R.; Westbrook, J.K.; Wolf, W.W.; Pair, S.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 147-149. Includes 19 references. (NAL Call No.: DNAL SB249.N6).

0985

The potential use of synomones, kairomones, and pheromones in the management of enemies of cotton pests.
BCOPB. Vinson, S.B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Literature review. 1988. p. 217-223. Includes references. (NAL Call No.: DNAL SB249.N6).

0986

Predation by tarnished plant bugs (Heteroptera: Miridae) of *Heliothis* (Lepidoptera: Noctuidae) eggs and larvae.
EVETEX. Cleveland, T.C. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1987. v. 16 (1). p. 37-40. ill. Includes references. (NAL Call No.: DNAL QL461.E532).

0987

Predation of striped lynx spider, *Oxyopes salticus* (Araneae: Oxyopidae), on tarnished plant bug, *Lygus lineolaris* (Heteroptera: Miridae): a laboratory evaluation.
AESAAI. Young, O.P. Lockley, T.C. College Park, Md. : The Society. Annals of the Entomological Society of America. Nov 1986. v. 79 (6). p. 879-883. Includes references. (NAL Call No.: DNAL 420 EN82).

0988

Preference and nonpreference of boll weevils to selected cotton.
BCOPB. Jones, J.E. Dickson, J.I.; Beasley, J.P. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 98-102. Includes references. (NAL Call No.: DNAL SB249.N6).

0989

Preference of boll weevils and tobacco budworms for five species of *Gossypium*.
BCOPB. Benedict, J.H. Treacy, M.F.; Altman, D.W.; Schmidt, K.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 92-93. Includes references. (NAL Call No.: DNAL SB249.N6).

0990

Preference of *Microplitis croceipes* (Hymenoptera: Braconidae) for instars and species of *Heliothis* (Lepidoptera: Noctuidae).
EVETEX. Hopper, K.R. King, E.G. College Park, Md. : Entomological Society of America. Environmental entomology. Aug 1984. v. 13 (4). p. 1145-1150. Includes references. (NAL Call No.: DNAL QL461.E532).

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A preliminary report on the effects of defoliant chemicals on early season cotton yield and green bolls in the Imperial Valley.
BCOPB. Chu, C.C. Bariola, L.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton

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0992

A preliminary report upon an improved method of controlling the boll weevil /by Geo D. Smith.
Smith, George Durward, 1886-. Gainesville, Fla. : University of Florida Agricultural Experiment Station, 1922. Cover title. p. 73 -118 : ill., charts ; 23 cm. Includes bibliographical references. (NAL Call No.: DNAL 100 F66S (1) no.165).

0993

Prey of the striped lynx spider *Oxyopes salticus* (Araneae, Oxyopidae), on cotton in the delta area of Mississippi.
JARCD. Lockley, T.C. Young, O.P. Lubbock, Tex. : American Arachnological Society. The Journal of arachnology. Fall 1986. v. 14 (3). p. 395-397. Includes references. (NAL Call No.: DNAL QL451.J6).

0994

Production practices: effects on cotton insect pest populations.
BCOPB. Bradley, J.R. Jr. Agnello, A.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 135-138. Includes 11 references. (NAL Call No.: DNAL SB249.N6).

0995

Progress in developing high tannin cotton for *Heliothis virescens* resistance.
BCOPB. Altamarino, T.P. Smith, C.W.; Love, J.; Bell, A.A.; Stipanovic, R.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 553. (NAL Call No.: DNAL SB249.N6).

0996

Protein and tannin in upper, middle, and lower cotton plant strata and cigarette beetle (*Coleoptera: Anobiidae*) growth on the foliage.
JEENAI. Yokoyama, V.Y. Mackey, B.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1987. v. 80 (4). p. 843-847. Includes references. (NAL Call No.: DNAL 421 J822).

0997

Pyrethroid and methyl parathion susceptibility of the tobacco budworm in Arizona.
SENTD. Watson, T.F. Crowder, L.A.; Kelly, S. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Dec 1986. v. 11 (4). p. 281-286. Includes references. (NAL Call No.: DNAL QL461.S65).

0998

Pyrethroid resistance and the tobacco budworm: interactions with chlordimeform and mechanisms of resistance.
BCOPB. Sparks, T.C. Leonard, B.R.; Graves, J.B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 366-370. Includes references. (NAL Call No.: DNAL SB249.N6).

0999

Pyrethroid resistance in field populations of *Heliothis virescens* (Lepidoptera: Noctuidae) in Mississippi in 1986.
JEENAI. Luttrell, R.G. Roush, R.T.; Ali, A.; Mink, J.S.; Reid, M.R.; Snodgrass, G.L. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1987. v. 80 (5). p. 985-989. Includes references. (NAL Call No.: DNAL 421 J822).

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Pyrethroid resistance in *Heliothis*: a world perspective.
Jackson, G.J. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 42-45. Includes references. (NAL Call No.: DNAL SB245.B42).

1001

Pyrethroid resistance in *Heliothis virescens* and resistance management: U.S. perspective.
Riley, S.L. Memphis, Tenn. : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Meeting held January 3-8, 1988, New Orleans, Louisiana. 1988. p. 45-48. Includes references. (NAL Call No.: DNAL SB245.B42).

1002

Quantitative phosphorus-32 labeling method for analysis of predators of the cotton fleahopper (Hemiptera: Miridae).

JEENAI. Breene, R.G. Sterling, W.L. College Park, Md. : Entomological Society of America. A method for the identification and quantitative evaluation of predators of the cotton fleahopper, *Pseudatomoscelis seriatus* (Reuter), is described. The method may be useful with other phytophagous Hemiptera, most notably *Lygus* spp. and Cicadellidae (S.O. Homoptera). Cotton fleahoppers are mass labeled by exposing the insects to 100-500 microCurie (microCi) phosphorus-32 (as H₃PO₄) for 1-3 h. After determining the mean CPM (counts, or disintegrations, per minute), a cohort of fleahoppers can be released on host plants in the field. After 24 and 48 h, the host and adjacent plants are sampled for labeled predators. The CPM of the radioactive predators is measured by liquid scintillation counting; an algorithm is provided to determine the number of individual prey items consumed by field-captured predators. The algorithm requires species-specific assimilation indexes for the prey and the predator involved in the analysis. An example is furnished of a release of radioactive fleahoppers on cotton in 1987. *Journal of economic entomology*. Oct 1988. v. 81 (5). p. 1494-1498. Includes references. (NAL Call No.: DNAL 421 J822).

1003

Quick tests for pesticide resistance in spider mites.

CAGRA. Grafton-Cardwell, E.E. Granett, J.; Dennehy, T.J. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. July/Aug 1987. v. 41 (7/8). p. 8-10. ill. (NAL Call No.: DNAL 100 C12CAG).

1004

A rapid field technique for infesting cotton plants with pink bollworm (Lepidoptera: Gelechiidae) eggs.

JEENAI. Wilson, F.D. Szaro, J.L. College Park, Md. : Entomological Society of America. Abstract: A rapid method is described for spraying eggs of pink bollworm (PBW), *Pectinophora gossypiella* (Saunders), on plants of cotton, *Gossypium hirsutum* L., to evaluate the plants for resistance to the insect. Pink bollworm eggs were collected from the USDA-ARS rearing facility at Phoenix, Ariz., and suspended in a 0.05% solution of gum xanthan in distilled water. After preliminary experimentation, we used a ratio of 1 egg to 1,250 parts solution (14.4 eggs per ml of solution). The solution was poured into a polypropylene bottle and sprayed on cotton plants in the field with the use of a spray wand (an estimated 630 eggs in 44 ml solution per meter of row). A constant air pressure was maintained with the use of an oxygen tank fitted with a compressed air regulator and a

line pressure gauge. This method required 2.5 s per boll per person compared with 21.3 s per boll per person for boll infestation by the use of an automatic repeating pipette. Using the new method, we evaluated 99 cotton germplasm lines and found 19 that sustained significantly less seed damage caused by PBW than the resistant control line, AET-5. *Journal of economic entomology*. June 1988. v. 81 (3). p. 959-962. ill. Includes references. (NAL Call No.: DNAL 421 J822).

1005

Rate response of cotton to three pyrethroids.

JEENAI. Derrick, M.E. Durant, J.A. College Park, Md. : Entomological Society of America. *Journal of economic entomology*. Dec 1986. v. 79 (6). p. 1627-1631. Includes references. (NAL Call No.: DNAL 421 J822).

1006

Rational and potential applications for monitoring pink bollworm egg populations in cotton.

BCOPB. Hutchison, W.D. Henneberry, T.J.; Beasley, C.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. *Proceedings - Beltwide Cotton Production Research Conferences*. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 183-188. ill. Includes 18 references. (NAL Call No.: DNAL SB249.N6).

1007

Rearing, sterilizing, containerizing, and quality assessing of sterile boll weevils released in a large-scale field experiment in South Carolina.

BCOPB. Reinecke, J.P. Roberson, J.L.; Villavaso, E.J.; Lloyd, E.P. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. *Proceedings - Beltwide Cotton Production Research Conferences*. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 238-241. Includes 17 references. (NAL Call No.: DNAL SB249.N6).

1008

Recent advances in cotton research.

Mississippi State, Miss. : The Station. *MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station*. May 1986. v. 49 (5). p. 6. ill. (NAL Call No.: DNAL 100 M69MI).

1009

Recent experimental work on poisoning cotton-boll weevils /by B.R. Coad.

Coad, B. R. 1890-. Washington, D.C. : U.S. Dept. of Agriculture, 1918. Caption title.~ "July 19, 1918.". 15 p. : ill. ; 24 cm. (NAL Call No.: DNAL 1 Ag84B no.731).

1010

The red spider on cotton and how to control it /by E.A. McGregor.

McGregor, E. A. Washington, D.C. : U.S. Dept. of Agriculture, 1916. Caption title.~ "Contribution from the Bureau of Entomology.". 12 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.735).

1011

The red spider on cotton and how to control it /E.A. McGregor.

McGregor, E. A. Washington, D.C. : U.S. Dept. of Agriculture, 1934. Originally issued Aug. 1917. 12 p. : ill., 1 map ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.831 1934).

1012

The red spider on cotton and how to control it /E.A. McGregor.

McGregor, E. A. Washington, D.C. : U.S. Dept. of Agriculture, 1917. Cover title.~ "Contribution from the Bureau of Entomology.". 16 p. : ill., 1 map ; 23 cm. Bibliography: p. 16. (NAL Call No.: DNAL 1 Ag84F no.831).

1013

Regionwide management of boll weevil in southern Texas.

BCOPB. Summy, K.R. Hart, W.G.; Davis, M.R.; Cate, J.R.; Norman, J.W. Jr.; Wofford, C.W. Jr.; Heilman, M.D.; Namken, L.N. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 240-247. Includes references. (NAL Call No.: DNAL SB249.N6).

1014

Registration of three noncommercial germplasm lines of upland cotton tolerant to tobacco budworm.

CRPSAY. Jenkins, J.N. Parrott, W.L.; McCarty, J.C. Jr.; Shepherd, R.L. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1988. v. 28 (5). p. 869. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Physical and chemical changes produced in bleached cotton duck by *Chaetomium globosum* and *Sporiochaeta cytophaga* /by Ruth Elmquist Rogers, Helen G. Wheeler, and Harry Humfeld.
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Essenberg, M. Pierce, M.; Shevell, J.L.; Sun, T.J.; Richardson, P.E. Cold Spring Harbor, N.Y. : Cold Spring Harbor Laboratory, 1985. Plant cell/cell interactions / edited by Ian Sussex ... et al. . Paper presented at a meeting on the topic of plant cell/cell interactions at the Banbury Conference Center of Cold Spring Harbor Laboratory, New York, October 2-4, 1985. p. 145-149. Includes references. (NAL Call No.: DNAL QK725.P552).

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JESCEP. Martin, W.R. Jr. Sterling, W.L.; Kenerley, C.M.; Morgan, P.W. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Apr 1988. v. 23 (2). p. 161-168. Includes references. (NAL Call No.: DNAL QL461.G4).

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JEENAI. Butler, G.D. Jr. Brown, J.K.; Henneberry, T.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1986. v. 79 (1). p. 208-211. Includes references. (NAL Call No.: DNAL 421 J822).

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SSSJD4. Adams, F. Hathcock, P.J. Madison, Wis. : The Society. Journal - Soil Science Society of America. Nov/Dec 1984. v. 48 (6). p. 1305-1309. Includes references. (NAL Call No.: DNAL 56.9 S03).

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CRSOA. Mauney, J.R. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Oct 1984. v. 37 (1). p. 20-22. ill. (NAL Call No.: DNAL 6 W55).

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The effect of crazy top disorder on cotton plants and its control by irrigation management /by Claude Hope, C.J. King, and Orlan Parker.

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Effects of environment upon ovule abortion in interspecific F1 hybrids and single species cultivars of cotton.

CRPSAY. Percy, R.G. Madison, Wis. : Crop Science Society of America. Crop science. Sept/Oct 1986. v. 26 (5). p. 938-942. Includes references. (NAL Call No.: DNAL 64.8 C883).

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BCOPB. Timpa, J.D. Upchurch, D.R.; Burke, J.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 60-61. Includes references. (NAL Call No.: DNAL SB249.N6).

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Potts, H.C. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Mar 1985. v. 48 (3). p. 8. (NAL Call No.: DNAL 100 M69MI).

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CAGRA. Kerby, T.A. Keeley, M. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Jan/Feb 1987. v. 41 (1/2). p. 18-19. ill. (NAL Call No.: DNAL 100 C12CAG).

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BCOPB. Pennington, D.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 69-71. ill. (NAL Call No.: DNAL SB249.N6).

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JAFCAU. Koshinen, W.C. Oliver, J.E.; Kearney, P.C.; McWhorter, C.G. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1984. v. 32 (6). p. 1246-1248. Includes references. (NAL Call No.: DNAL 381 J8223).

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BCOPB. Baker, R.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 384-386. (NAL Call No.: DNAL SB249.N6).

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Factors affecting the response of cotton to preplant applications of EPTC and butylate.

Chernicky, J.P. Heathman, E.S.; Hamilton, K.C.; Barstow, B.B. S.I. : Western Society of Weed Science. Research progress report - Western Society of Weed Science. 1987. p. 213-215. (NAL Call No.: DNAL 79.9 W52R).

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BCOPB. Chernicky, J.P. Heathman, E.S.; Hamilton, K.C.; Barstow, B. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 358-359. (NAL Call No.: DNAL SB249.N6).

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Growth of cotton under chronic ozone stress at two levels of soil moisture.

JEVQAA. Miller, J.E. Patterson, R.P.; Heagle, A.S.; Pursley, W.A.; Heck, W.W. Madison, Wis. : American Society of Agronomy. Recent field research has shown that ambient concentrations of ozone (O₃) have the potential to reduce

yield of a number of economically important crop species. Soil water levels have been shown sometimes to modify the extent of the reduction. The primary emphasis of most of these studies has been on the plant component that represents economic yield. Less emphasis has been placed on characterization of the effects of O₃ on growth of the total plant that ultimately determines yield. In this study, we measured season-long growth of field-grown cotton (*Gossypium hirsutum* L. 'McNair-235') that was exposed to a range of O₃ concentrations of two levels of soil moisture, well-watered (WW) and water-stressed (WS). The cotton was exposed for 12 h d⁻¹ throughout the growing season in open-top chambers to five O₃ concentrations that ranged from 0.020 to 0.074 microliter L⁻¹ (seasonal mean 12 h d⁻¹ concentration). Three cotton plants were sampled from each chamber at 2- to 3- wk intervals during the season, and biomass and growth measurements were made on all major plant parts. Ozone stress reduced leaf and root biomass in particular, while stem tissues were less affected. Partitioning of biomass among plant tissues was affected by O₃ at certain times during the season. Leaf area duration (LAD) was reduced by O₃ in both WW and WS treatments, but changes in the yield/LAD ratio and net assimilation rate indicated that reduced efficiency of leaves also was responsible for yield reductions in the WW plots. Water stress caused fewer significant effects overall than did O₃ although it appeared to reduce the growth of most plant parts, especially at low O₃ concentrations. There were no significant O₃ x water interactions for the growth variables measured. Journal of environmental quality. Oct/Dec 1988. v. 17 (4). p. 635-643. Includes references. (NAL Call No.: DNAL QH540.J6).

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Impact of powerlines on cost of cotton production.

BCOPB. Parsch, L.D. Norman, M.D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 422-427. Includes references. (NAL Call No.: DNAL SB249.N6).

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AKFRAC. Parsch, L.D. Norman, M.D. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Sept/Oct 1986. v. 35 (5). p. 4. (NAL Call No.: DNAL 100 AR42F).

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In-field weathering losses of cotton (in Oklahoma).

Williams, O.H. Memphis, Tenn. : Southwest Five-State Cotton Growers Association. Summary proceedings - Western Cotton Production Conference. 1984. 1984. p. 28-29. ill. (NAL Call No.: 72.8 W522).

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Influence of wind and irrigation on cotton biomass and yield.

Barker, G.L. Hatfield, J.L.; Wanjura, D.F. St. Joseph, Mich. : The Society. American Society of Agricultural Engineers (Microfiche collection). Paper presented at the 1985 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1985. (fiche no. 85-2610). 23 p. Includes references. (NAL Call No.: DNAL FICHE S-72).

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Injury and yield response of cotton to chronic doses of ozone and soil moisture deficit.

JEVQAA. Heagle, A.S. Miller, J.E.; Heck, W.W.; Patterson, R.P. Madison, Wis. : American Society of Agronomy. Plant response to ozone (O₃) is known to be modified by soil moisture deficit, which occurs in varying degrees during most growing seasons. Thus, we examined the response of cotton (*Gossypium hirsutum* L. 'McNair 235') to different levels of seasonal stress by O₃ when grown at two soil moisture levels. The cotton was exposed for 12 h d⁻¹ in open top field chambers to five O₃ doses (seasonal 12 h d⁻¹ means from 0.020 to 0.074 microliter L⁻¹) under well-watered (WW) conditions or under water-stressed (WS) conditions with periodic cycles of low soil moisture. Exposures began when the fifth leaves were expanding and continued for 124 d when most leaves were chlorotic or had abscised. Ozone caused significant yield loss in WW plots but not in WS plots. Based on estimates from polynomial regression analysis, ambient O₃ (seasonal 12 h d⁻¹ mean of 0.044 microliter L⁻¹) caused a yield decrease of 19% in the WW plots compared to the O₃ level in our charcoal-filtered air plots (seasonal 12 h d⁻¹ mean of 0.004 microliter L⁻¹). The comparable estimate for data from the WS plot was 7%, but this regression was not statistically significant. Results indicate that soil moisture deficit can decrease the impact of O₃ on cotton yield. Journal of environmental quality. Oct/Dec 1988. v. 17 (4). p. 627-635. Includes references. (NAL Call No.: DNAL QH540.J6).

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JEVQAA. Heagle, A.S. Heck, W.W.; Lesser, V.M.; Rawlings, J.O.; Rawlings, J.O.; Mowry, F.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1986. v. 15 (4). p. 375-382. Includes references. (NAL Call No.: DNAL QH540.J6).

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Lauchli, A. Davis : University of California, Davis?, 1981? . A Conference on biosalinity : the problem of salinity in agriculture : a joint conference of Egyptian, Israeli and American scientists, Univ. of California, Davis, September 1-4, 1981 / organized and. p. 63-69. ill. Includes 8 references. (NAL Call No.: DNAL S619.S24C6).

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PCBPB. Stegink, S.J. Vaughn, K.C. Duluth, Minn. : Academic Press. Pesticide biochemistry and physiology. July 1988. v. 31 (3). p. 269-275. ill. Includes references. (NAL Call No.: DNAL SB951.P49).

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Phytotoxicity to crop plants and herbicidal effects on weeds of viridiol produced by *Gliocladium virens*.

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(MISCELLANEOUS PLANT DISORDERS)

1303

Reducing wind and sand damage to cotton seedlings on the Texas high plains.

BCOPB. Supak, J.R. Grubaugh, E.K. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 293-295. Includes 20 references. (NAL Call No.: DNAL SB249.N6).

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Response of cotton, alfalfa, and cantaloupe to foliar-deposited salt in an arid environment.

JEVQAA. Hofmann, W.C. Karpiscak, M.M.; Bartels, P.G. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1987. v. 16 (3). p. 267-272. Includes references. (NAL Call No.: DNAL QH540.J6).

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AAREEZ. Fryear, D.W. New York : Springer. Applied agricultural research. 1987. v. 1 (5). p. 311-314. Includes references. (NAL Call No.: DNAL S539.5.A77).

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Root cation exchange capacity of cotton cultivars in relation to aluminum toxicity.

JPNUDS. Kennedy, C.W. Smith, W.C. Jr.; Ba, M.T. New York, N.Y. : Marcel Dekker. Journal of plant nutrition. Aug 1986. v. 9 (8). p. 1123-1133. Includes 16 references. (NAL Call No.: DNAL QK867.J67).

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PROTECTION OF PLANT PRODUCTS – GENERAL AND MISC.

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Waterproofing and mildewproofing of cotton duck /H.P. Holman and T.D. Jarrell.

Holman, H. P. 1882-. Jarrell, T. D. 1887-. Washington, D.C. : U.S. Dept. of Agriculture, 1931. Originally issued Oct. 1920. 10 p. : ill. ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.1157 1931).

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1314

Annotated list of the insects and mites associated with stored grain and cereal products, and of their arthropod parasites and predators /by R.T. Cotton and N.E. Good.
Cotton, R. T. Good, Newell E. 1905-. Washington, D.C. : U.S. Dept. of Agriculture, 1937. Caption title.~ Contribution from Bureau of Entomology and Plant Quarantine. 81 p. ; 23 cm. Bibliography: p. 63-74. (NAL Call No.: DNAL 1 Ag84M no.258).

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Development of an insect-resistant cotton bag (by Hamilton Laudani, Henry A. Highland, and David A. Yeadon). -.
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The economics of cotton harvesting in the midsouth, with emphasis on early season insect control.
Parvin, D.W. Jr. Smith, J.W. Mississippi State : The Station. Staff paper series - Mississippi State University, Department of Agricultural Economics, Mississippi Agricultural and Forestry Experiment Station. Includes statistical data. Dec 1985. (74). 34 p. (NAL Call No.: DNAL S79.S73).

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Effects of temperature and CO2 concentration on the growth of cotton (*Gossypium hirsutum*), spurred anoda, (*Anoda cristata*), and velvetleaf (*Abutilon theophrasti*).

WEESA6. Patterson, D.T. Highsmith, M.T.; Flint, E.P. Champaign, Ill. : Weed Science Society of America. Cotton, spurred anoda, and velvetleaf were grown in controlled-environment chambers at day/night temperatures of 32/33 or 26/17 C and CO2 concentrations of 350 or 700 ppm. After 5 weeks, CO2 enrichment to 700 ppm increased dry matter accumulation by 38, 26, and 29% in cotton, spurred anoda, and velvetleaf, respectively, at 26/17 C and by 61, 41, and 29% at 32/23 C. Increases in leaf weight

accounted for over 80% of the increase in total plant weight in cotton and spurred anoda in both temperature regimes. Leaf area was not increased by CO₂ enrichment. The observed increases in dry matter production with CO₂ enrichment were caused by increased net assimilation rate. In a second experiment, plants were grown at 350 ppm CO₂ and 29/23 C day/night for 17 days before exposure to 700 ppm CO₂ at 26/17 C for 1 week. Short-term exposure to high CO₂ significantly increased net assimilation rate, dry matter production, total dry weight, leaf dry weight, and specific leaf weight in comparison with plants maintained at 350 ppm CO₂ at 26/17 C. Increases in leaf weight in response to short-term CO₂ enrichment accounted for 100, 87, and 68% of the observed increase in total plant dry weight of cotton, spurred anoda, and velvetleaf, respectively. Comparisons among the species showed that CO₂ enrichment decreased the weed/crop ratio for total dry weight, possibly indicating a potential competitive advantage for cotton under elevated CO₂, even at suboptimum temperatures. *Weed science*. Nov 1988. v. 36 (6). p. 751-757. Includes references. (NAL Call No.: DNAL 79.8 W41).

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BCOPB. Baker, R.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. *Proceedings - Beltwide Cotton Production Research Conferences*. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 384-386. (NAL Call No.: DNAL SB249.N6).

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Chernicky, J.P. Heathman, E.S.; Hamilton, K.C.; Barstow, B.B. S.l. : Western Society of Weed Science. Research progress report - Western Society of Weed Science. 1987. p. 213-215. (NAL Call No.: DNAL 79.9 W52R).

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Germination and seed production of unicorn-plant (*Proboscidea louisianica*).

WEESA6. Riffle, M.S. Thilsted, W.E.; Murray, D.S.; Ahring, R.M.; Waller, G.R. Champaign, Ill. : Weed Science Society of America. Field and laboratory experiments were conducted with unicorn-plant to determine conditions required for germination and to measure seed production. Field-grown plants produced an average of 122 pods/plant with an average of 71 seed/pod. The highest percent germination from seed harvested in 1980 occurred following a 2-week prechill treatment of 4 C. Germination increase was greater by removing the seed coat and the membrane enclosing the embryo than by removing the seed coat alone. Germination of seed from all pod compartments was similar. Aqueous extracts of unicorn-plant testa, leaf, stem, root, and exocarp were inhibitory in petri dish bioassays to cotton radicle growth. Extracts of stem, root, and exocarp were inhibitory to wheat radicle growth, and extracts of endocarp, leaf, and exocarp were inhibitory to unicorn-plant radicle growth. Seed buried in the field 10 cm deep for 1 to 8 months showed increased germination over time. Germination was lower when seed were stored at 4 C for 1 to 8 months in a soil having 25% (v/v) water. Weed science. Nov 1988. v. 36 (6). p. 787-791. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Growth and water relations of cotton (*Gossypium hirsutum*), spurred anoda (*Anoda cristata*), and velvetleaf (*Abutilon theophrasti*) during simulated drought and recovery.

WEESA6. Patterson, D.T. Champaign, Ill. : Weed Science Society of America. Abstract: Cotton (*Gossypium hirsutum* L. 'Coker 315'), spurred anoda *Anoda cristata* (L.) Schlecht. ~ ANVCR, and velvetleaf (*Abutilon theophrasti* Medik. ~ ABUTH) were grown in controlled-environment chambers at 29/23 C day/night temperature and 1000 microE.m-2.s-1 photosynthetic photo flux density (PPFD). Groups of plants were subjected to water by withholding water for 8 days, beginning at 27 days after planting. Cotton reached a lower leaf water potential than spurred anoda and velvetleaf following 8 days of withholding water. Following the drought, plants were rewatered for a 6-day recovery period. Water stress reduced plant height, leaf number, leaf area, total dry weight, stomatal conductance, transpiration, net assimilation rate, and leaf area duration in all species, in comparison with well-watered controls. Water stress decreased partitioning of plant biomass into leaves and increased partitioning into roots. Following rewatering, stomatal conductance and transpiration rates of previously stressed plants recovered to control levels within 28 h. Net assimilation rates of previously stressed spurred anoda also recovered to control levels. After 6 days of recovery, total dry weights and leaf areas of previously stressed plants of all three species remained below those of control plants. The overall effect of the drought and water stress

was to delay the time at which spurred anoda and velvetleaf equaled or surpassed cotton in dry weight and leaf area, suggesting that drought early in the growing season under field conditions might increase the competitiveness of cotton relative to the two weeds. Weed science. May 1988. v. 36 (3). p. 318-324. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Hairy nightshade (*Solanum sarrachoides*) control with preplant incorporated herbicides.

BCOPB. Vargas, R.N. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 248-249. Includes 1 references. (NAL Call No.: DNAL SB249.N6).

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Frans, R. Corbin, B.; Johnson, D.; McClelland, M. Fayetteville : The Station. Research series - University of Arkansas Agricultural Experiment Station. Includes statistical data. Mar 1987. (354). 92 p. (NAL Call No.: DNAL S541.5.A8R47).

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BCOPB. Baker, R.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 356-358. Includes references. (NAL Call No.: DNAL SB249.N6).

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AGJDAT. Wiese, A.F. Chenault, E.W. Madison, Wis. : American Society of Agronomy. Agronomy journal. Sept/Oct 1986. v. 78 (5). p. 897-900. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Influence of cultivar height on competitiveness of cotton (*Gossypium hirsutum*) with johnsongrass (*Sorghum halepense*).

WEESA6. Bridges, D.C. Chandler, J.M. Champaign, Ill. : Weed Science Society of America. Research was conducted from 1983 through 1986 to compare the competitiveness of three cotton cultivars of different height with

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johnsongrass. Cultivars evaluated were: '1209-619-7', 'TAMCOT SP37-H', and 'Stoneville 213', which had an average height at maturity of 66, 122, and 168 cm, respectively. Each cultivar was grown with johnsongrass densities of 0, 4, and 6 plants/6 m of row with a 1-m row spacing. Johnsongrass biomass data confirmed that all three cultivars did compete with johnsongrass, but regression analyses using cultivar as a covariate revealed no difference in the competitiveness of the three cultivars. Weed science. Sept 1988. v. 36 (5). p. 616-620. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Influence of date of planting on the growth of yellow nutsedge (*Cyperus esculentus*).

WEESA6. Thullen, R.J. Keeley, P.E. Champaign, Ill. : Weed Science Society of America. Weed science. Mar 1987. v. 35 (2). p. 173-176. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Influence of sequential dew periods on biocontrol of sicklepod (*Cassia obtusifolia*) by *Alternaria cassiae*.

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Interaction of *Alternaria macrospora* and *Fusarium lateritium lateritium* on spurred anoda.

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Interaction of fluometuron and MSMA with sethoxydim and fluazifop.

WEESA6. Byrd, J.D. Jr. York, A.C. Champaign, Ill. : Weed Science Society of America. Weed science. Mar 1987. v. 35 (2). p. 270-276. Includes references. (NAL Call No.: DNAL 79.8 W41).

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Interference of hemp sesbania (*Sesbania exaltata*) with cotton (*Gossypium hirsutum*).

WEESA6. Bryson, C.T. Champaign, Ill. : Weed Science Society of America. Weed science. May 1987. v. 35 (3). p. 314-318. Includes references. (NAL Call No.: DNAL 79.8 W41).

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An introduction to RE-40885, a new broadleaf and grass herbicide.

Fulford, A.D. Bishop, T.D.; Rich, G.J. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. 1987. p. 134. (NAL Call No.: DNAL SB245.B42).

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RRMSD. Stevens, W.E. Johnson, J.R.; Hurst, H.R. Mississippi State, Miss. : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. May 1986. v. 11 (5). 4 p. Includes references. (NAL Call No.: DNAL S79.E37).

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Limited tillage in cotton production.

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BCOPB. Bryson, C.T. Webster, L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana.~ Includes abstract. 1988. p. 384. (NAL Call No.: DNAL SB249.N6).

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Abernathy, J.R. Memphis : National Cotton Council. Proceedings of the...Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 32. (NAL Call No.: DNAL SB245.B42).

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BCOPB. Baker, R.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 204-205. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Bowers, R.N. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 347-349. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Patterson, M. Monks, D. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 349. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Weaver, D.N. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 350. (NAL Call No.: DNAL SB249.N6).

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Texas High Plains relative to cotton yields and
economic impact. Results did not indicate a
serious effect of bollworms upon lint yield
when insecticides were used for control.
However, estimated annual reduction in farmer
profit due to the bollworm for 1979-81 was over
\$30 million. Yields were estimated to decline
about 300,000 bales without insecticide use and
about 30,000 bales with insecticide use. This
decline suggests potentially serious
implications for the comparative economic
position of cotton in this region if
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insect pests. Southern journal of agricultural
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JEVQAA. Miller, J.E. Patterson, R.P.; Heagle, A.S.; Pursley, W.A.; Heck, W.W. Madison, Wis. : American Society of Agronomy. Recent field research has shown that ambient concentrations of ozone (O3) have the potential to reduce yield of a number of economically important crop species. Soil water levels have been shown sometimes to modify the extent of the reduction. The primary emphasis of most of these studies has been on the plant component that represents economic yield. Less emphasis has been placed on characterization of the effects of O3 on growth of the total plant that ultimately determines yield. In this study, we measured season-long growth of field-grown cotton (*Gossypium hirsutum* L. 'McNair-235') that was exposed to a range of O3 concentrations of two levels of soil moisture, well-watered (WW) and water-stressed (WS). The cotton was exposed for 12 h d⁻¹ throughout the growing season in open-top chambers to five O3 concentrations that ranged from 0.020 to 0.074 microliter L⁻¹ (seasonal mean 12 h d⁻¹ concentration). Three cotton plants were sampled from each chamber at 2- to 3- wk intervals during the season, and biomass and growth measurements were made on all major plant parts. Ozone stress reduced leaf and root biomass in particular, while stem tissues were less affected. Partitioning of biomass among plant tissues was affected by O3 at certain times during the season. Leaf area duration (LAD) was reduced by O3 in both WW and WS treatments, but changes in the yield/LAD ratio and net assimilation rate indicated that reduced efficiency of leaves also was responsible for yield reductions in the WW plots. Water stress caused fewer significant effects overall than did O3 although it appeared to reduce the growth of most plant parts, especially at low O3 concentrations. There were no significant O3 x water interactions for the growth variables measured. Journal of environmental quality. Oct/Dec 1988. v. 17 (4). p. 635-643. Includes references. (NAL Call No.: DNAL QH540.J6).

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In-row chisel plowing: effect on plant growth and properties of clay soils.

JSWCA3. Heilman, M.D. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Mar/Apr 1988. v. 43 (2). p. 202-204. ill. Includes references. (NAL Call No.: DNAL 56.8 J822).

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Injury and yield response of cotton to chronic doses of ozone and soil moisture deficit.

JEVQAA. Heagle, A.S. Miller, J.E.; Heck, W.W.; Patterson, R.P. Madison, Wis. : American Society of Agronomy. Plant response to ozone (O3) is known to be modified by soil moisture deficit, which occurs in varying degrees during

most growing seasons. Thus, we examined the response of cotton (*Gossypium hirsutum* L. 'McNair 235') to different levels of seasonal stress by O3 when grown at two soil moisture levels. The cotton was exposed for 12 h d-1 in open top field chambers to five O3 doses (seasonal 12 h d-1 means from 0.020 to 0.074 microliter L-1) under well-watered (WW) conditions or under water-stressed (WS) conditions with periodic cycles of low soil moisture. Exposures began when the fifth leaves were expanding and continued for 124 d when most leaves were chlorotic or had abscised. Ozone caused significant yield loss in WW plots but not in WS plots. Based on estimates from polynomial regression analysis, ambient O3 (seasonal 12 h d-1 mean of 0.044 microliter L-1) caused a yield decrease of 19% in the WW plots compared to the O3 level in our charcoal-filtered air plots (seasonal 12 h d-1 mean of 0.004 microliter L-1). The comparable estimate for data from the WS plot was 7%, but this regression was not statistically significant. Results indicate that soil moisture deficit can decrease the impact of O3 on cotton yield. *Journal of environmental quality*. Oct/Dec 1988. v. 17 (4). p. 627-635. Includes references. (NAL Call No.: DNAL QH540.J6).

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Selected chemical and physical properties of soils manifesting cotton root rot.

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Huck, M.G. Madison, Wis. : The Society. ASA special publication - American Society of Agronomy. Paper presented at the "Symposium on Roots, Nutrient and Water Influx, and Plant Growth," Nov. 28-Dec 3, 1982, Anaheim, California. 1984. (49). p. 47-63. ill. Includes 57 references. (NAL Call No.: DNAL 64.9 AM3).

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HARAA. Touchton, J.T. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama Agricultural Experiment Station. Summer 1986. v. 33 (2). p. 10. ill. (NAL Call No.: DNAL 100 AL1H).

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Effect of nitrogen fertilizer rates and defoliation timing on cotton yield and quality--a GOSSYM-COMAX comparison.

BCOPB. Burmester, C.H. Adams, J.F.; Chapman, L.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 509-510. (NAL Call No.: DNAL SB249.N6).

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CSOSA2. Rickerl, D.H. Gordon, W.B.; Touchton, J.T.; Curl, E.A. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Nov 1987. v. 18 (11). p. 1281-1302. ill. Includes references. (NAL Call No.: DNAL S590.C63).

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Effects of long-term drought and nitrogen on fruiting and yield of cotton.

BCOPB. Begonia, G.B. Hesketh, J.D.; Hodges, H.F. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 71-75. Includes 13 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Funderburg, E.R. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 474. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Rickerl, D.H. Gordon, W.B.; Touchton, J.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 455-456. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Zelinski, L.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 401-402. (NAL Call No.: DNAL SB249.N6).

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Effects of varying rates of nitrogen on three cotton cultivars.

AKABA. Maples, R. Frizzell, M. Fayetteville : The Station. Bulletin - Arkansas, Agricultural Experiment Station. Aug 1985. (882). 19 p. Includes 21 references. (NAL Call No.: DNAL 100 AR42).

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BCOPB. Mostaghimi, S. Matocha, J.E.; Branick, P.S.; El-Zik, K.; Bird, L.S. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 35-37. Includes references. (NAL Call No.: DNAL SB249.N6).

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EVETEX. Foster, M.A. Gaylor, M.J. College Park, Md. : Entomological Society of America. Environmental entomology. June 1987. v. 16 (3). p. 743-746. Includes references. (NAL Call No.: DNAL QL461.E532).

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AESAAI. Hutchison, W.D. Butler, G.D. Jr.; Martin, J.M. College Park, Md. : The Society. Annals of the Entomological Society of America. Includes statistical data. May 1986. v. 79 (3). p. 482-487. Includes references. (NAL Call No.: DNAL 420 EN82).

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Chittenden, F. H. 1858-1929. Washington, D.C. : U.S. Dept. of Agriculture, 1918. Cover title.~ "Contribution from the Bureau of Entomology.". 16 p. : ill., 1 map ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.914).

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FETMA. Zalom, F.G. Natwick, E.T. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. Dec 1987. v. 70 (4). p. 427-431. Includes references. (NAL Call No.: DNAL 420 F662).

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Dispersal of *Lygus lineolaris* (Heteroptera: Miridae) adults through cotton following nursery host destruction.

EVETEX. Fleischer, S.J. Gaylor, M.J.; Hue, N.V. College Park, Md. : Entomological Society of America. Abstract: Movement of *Lygus lineolaris* (Palisot de Beauvois) adults following destruction of a nursery plot placed within a cotton (*Gossypium hirsutum* L.) field was traced in two field studies. An internal physiological marker was acquired during feeding on the nursery plot and resulted in higher numbers of marked individuals than use of fluorescent dust applied to captured insects. This was in spite of repeated efforts to establish a population of fluorescent-marked individuals. Dispersal immediately following destruction of the nursery plot was adequately modeled as a diffusion process, but emigration from the cotton occurred within days. When *Erigeron annuus* (L.) Persoon refuges were nearby, there was a large increase in the number of marked adults found in the refuges one and two days after the nursery host was destroyed. Screenhouse studies showed that the presence of *E. annuus* near cotton significantly decreased the proportion of adults that remained on the cotton. Projections of colonization potentials were higher for founder populations on *E. annuus* than on cotton. This suggests that movement toward *E. annuus* represents efficient use of habitat by this polyphagous species even when *E. annuus* exists as small patchy refuges within cotton monocultures. Damage to cotton reflected the high *L. lineolaris* density imposed by the placement and later destruction of the nursery plot, suggesting that damage can result from improper management of nursery

hosts. Environmental entomology. June 1988. v. 17 (3). p. 533-541. Includes references. (NAL Call No.: DNAL QL461.E532).

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Dynamics of Preimaginal populations of *Bemisia tabaci* (Homoptera: Aleyrodidae) and *Eretmocerus* sp. (Hymenoptera: Aphelinidae) in southern California cotton.

EVETEX. Bellows, T.S. Jr. Arakawa, K. College Park, Md. : Entomological Society of America. Abstract: Immature populations of sweetpotato whitefly, *Bemisia tabaci* (Gennadius), were sampled in cotton fields in southern California; three fields were sampled in 1982; five fields were sampled in 1983. Population densities varied from 0 to 20 nymphs per mainstem node. Young nymphs represented approximately half the population early in the season, but the proportion of young nymphs decreased to zero late in the season. Populations were subject to little parasitism by *Eretmocerus* sp. in the first half of the season; parasitism increased to about 70% in the second half of the season. Environmental entomology. June 1988. v. 17 (3). p. 483-487. Includes references. (NAL Call No.: DNAL QL461.E532).

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Evaluation of the importance of the striped lynx spider, *Oxyopes salticus* (Araneae: Oxyopidae), as a predator in Texas cotton.

EVETEX. Nyffeler, M. Dean, D.A.; Sterling, W.L. College Park, Md. : Entomological Society of America. Environmental entomology. Oct 1987. v. 16 (5). p. 1114-1123. Includes references. (NAL Call No.: DNAL QL461.E532).

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The foraging activity of *Agapostemon angelicus* Cockerell relative to hybrid cottonseed production in Texas.

SENTD. Berger, L.A. Moffett, J.D.; Rummel, D.R. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Mar 1988. v. 13 (1). p. 47-54. Includes references. (NAL Call No.: DNAL QL461.S65).

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***Goniozus pakmanus* (Hymenoptera: Bethyridae), a new species imported into California for the biological control of pink bollworm, *Pectinophora gossypiella* (Lepidoptera: Gelechiidae).**

ETMNA6. Gorodh, G. Philadelphia, Pa. : American Entomological Society. Entomological news. Nov/Dec 1984. v. 95 (5). p. 207-211. ill. Includes references. (NAL Call No.: DNAL 421 EN88).

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Fry, K.E. Oakland : The Service. Advances in agricultural technology. AAT-W. - United States, Dept. of Agriculture, Agricultural Research Service, Western Region. Includes statistical data. Feb 1983. (23). 23 p. ill. Includes 14 references. (NAL Call No.: DNAL aS21.A76U66).

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JESCEP. Heiss, J.S.; Harris, V.E.; Phillips, J.R. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Jan 1988. v. 23 (1). p. 1-35. ill. Includes references. (NAL Call No.: DNAL QL461.G4).

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JEENAI. Roush, R.T. Wolfenbarger, D.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1020-1022. Includes references. (NAL Call No.: DNAL 421 J822).

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Laboratory studies on the development, longevity, and fecundity of six lepidopterous pests of cotton in Arizona by R.E. Fye and W.C. McAda . --.

Fye, R. E. Washington, D.C. : Agricultural Research Service, U.S. Dept. of Agriculture ; Tempe, Ariz. ? : Arizona Agricultural Experiment Station, 1972. 73 p. : ill. --. Bibliography: p. 72-73. (NAL Call No.: DNAL Fiche S-69 no.1454).

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Natural cross-pollination in cotton /by D.M. Simpson.

Simpson, D. M. 1894-. Washington : U.S. Dept. of Agriculture, 1954. Cover title. 17 p. : ill., maps ; 23 cm. Literature cited: p. 17. (NAL Call No.: DNAL 1 Ag84Te no.1094).

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Physiological saline for the larvae of *Spodoptera littoralis* (Lepidoptera: Noctuidae) based on an analysis of the hemolymph.
JEENAI. Davenport, A.P. Wright, D.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1151-1153. Includes references. (NAL Call No.: DNAL 421 J822).

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Pink bollworm: prepupal and pupal development and adult emergence patterns as affected by soil temperature and moisture.
SENTD. Henneberry, T.J. Clayton, T.E. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. June 1986. v. 11 (2). p. 101-106. Includes references. (NAL Call No.: DNAL QL461.S65).

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The red spider on cotton and how to control it /E.A. McGregor.
McGregor, E. A. Washington, D.C. : U.S. Dept. of Agriculture, 1934. Originally issued Aug. 1917. 12 p. : ill., 1 map ; 23 cm. (NAL Call No.: DNAL 1 Ag84F no.831 1934).

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JEENAI. Powell, J.E. King, E.G. Jr.; Jany, C.S. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1986. v. 79 (5). p. 1343-1346. Includes references. (NAL Call No.: DNAL 421 J822).

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JEENAI. Waller, G.D. Vaissiere, B.E.; Moffett, J.O.; Martin, J.H. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1985. v. 78 (3). p. 558-561. Includes references. (NAL Call No.: DNAL 421 J822).

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BCOPB. Loper, G.M. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 119-123. Includes references. (NAL Call No.: DNAL SB249.N6).

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JEENAI. Waller, G.D. Estes, B.J.; Buck, N.A.; Taylor, K.S.; Crowder, L.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1988. v. 81 (4). p. 1022-1026. Includes references. (NAL Call No.: DNAL 421 J822).

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1607

Inheritance of methomyl resistance in the tobacco budworm (Lepidoptera: Noctuidae).

JEENAI. Roush, R.T. Wolfenbarger, D.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1020-1022. Includes references. (NAL Call No.: DNAL 421 J822).

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Dispersal of *Lygus lineolaris* (Heteroptera: Miridae) adults through cotton following nursery host destruction.

EVETEX. Fleischer, S.J. Gaylor, M.J.; Hue, N.V. College Park, Md. : Entomological Society of America. Abstract: Movement of *Lygus lineolaris* (Palisot de Beauvois) adults following destruction of a nursery plot placed within a cotton (*Gossypium hirsutum* L.) field was traced in two field studies. An internal physiological marker was acquired during feeding on the nursery plot and resulted in higher numbers of marked individuals than use of fluorescent dust applied to captured insects. This was in spite of repeated efforts to establish a population of fluorescent-marked individuals. Dispersal immediately following destruction of the nursery plot was adequately modeled as a diffusion process, but emigration from the cotton occurred within days. When *Erigeron annuus* (L.) Persoon refuges were nearby, there was a large increase in the number of marked adults found in the refuges one and two days after the nursery host was destroyed. Screenhouse studies showed that the presence of *E. annuus* near cotton significantly decreased the proportion of adults that remained on the cotton. Projections of colonization potentials were higher for founder populations on *E. annuus* than on cotton. This suggests that movement toward *E. annuus* represents efficient use of habitat by this polyphagous species even when *E. annuus* exists as small patchy refuges within cotton monocultures. Damage to cotton reflected the high *L. lineolaris* density imposed by the placement and later destruction of the nursery plot, suggesting that damage can result from improper management of nursery hosts. Environmental entomology. June 1988. v. 17 (3). p. 533-541. Includes references. (NAL Call No.: DNAL QL461.E532).

1609

Dynamics of Preimaginal populations of *Bemisia tabaci* (Homoptera: Aleyrodidae) and *Eretmocerus* sp. (Hymenoptera: Aphelinidae) in southern California cotton.

EVETEX. Bellows, T.S. Jr. Arakawa, K. College Park, Md. : Entomological Society of America. Abstract: Immature populations of sweetpotato whitefly, *Bemisia tabaci* (Gennadius), were sampled in cotton fields in southern California; three fields were sampled in 1982; five fields were sampled in 1983. Population densities varied from 0 to 20 nymphs per mainstem node. Young nymphs represented approximately half the population early in the season, but the proportion of young nymphs decreased to zero late in the season. Populations were subject to little parasitism by *Eretmocerus* sp. in the first half of the season; parasitism increased to about 70% in the second half of the season. Environmental entomology. June 1988. v. 17 (3). p. 483-487. Includes references. (NAL Call No.: DNAL QL461.E532).

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The foraging activity of *Agapostemon angelicus* Cockerell relative to hybrid cottonseed production in Texas.

SENTD. Berger, L.A. Moffett, J.O.; Rummel, D.R. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Mar 1988. v. 13 (1). p. 47-54. Includes references. (NAL Call No.: DNAL QL461.S65).

ANIMAL NUTRITION

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Evaluation of the importance of the striped
lynx spider, *Oxyopes salticus* (Araneae:
Oxyopidae), as a predator in Texas cotton.
EVETEX. Nyffeler, M. Dean, D.A.; Sterling, W.L.
College Park, Md. : Entomological Society of
America. Environmental entomology. Oct 1987. v.
16 (5). p. 1114-1123. Includes references. (NAL
Call No.: DNAL QL461.E532).

ANIMAL PHYSIOLOGY AND BIOCHEMISTRY

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Age-specific developmental times for pink bollworm (*Lepidoptera: Gelechiidae*): three age classes of eggs, five larval instars, and pupae.

AESAAI. Hutchison, W.D. Butler, G.D. Jr.; Martin, J.M. College Park, Md. : The Society. Annals of the Entomological Society of America. Includes statistical data. May 1986. v. 79 (3). p. 482-487. Includes references. (NAL Call No.: DNAL 420 EN82).

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Developmental time of sweetpotato whitefly (*Homoptera: Aleyrodidae*) in small field cages on cotton plants.

FETMA. Zalom, F.G. Natwick, E.T. Gainesville, Fla. : Florida Entomological Society. Florida entomologist. Dec 1987. v. 70 (4). p. 427-431. Includes references. (NAL Call No.: DNAL 420 F662).

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Fry, K.E. Oakland : The Service. Advances in agricultural technology. AAT-W. - United States, Dept. of Agriculture, Agricultural Research Service, Western Region. Includes statistical data. Feb 1983. (23). 23 p. ill. Includes 14 references. (NAL Call No.: DNAL aS21.A76U66).

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Laboratory studies on the development, longevity, and fecundity of six lepidopterous pests of cotton in Arizona by R.E. Fye and W.C. McAda . --.

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Peptide toxins from arthropod venoms disrupt feeding and utilization of diet in the cotton bollworm.

Ross, D.C. Herzog, G.A.; Crim, J.W. Clifton, N.J. : Humana Press, 1986. Insect neurochemistry and neurophysiology, 1986 / edited by A.B. Borkovec and Dale B. Gelman. Paper presented at the "Second International Conference on Insect Neurochemistry and Neurophysiology (ICINN-86)," August 4-6, 1986, University of Maryland, College Park, Maryland. p. 401-404. ill. Includes references. (NAL Call No.: DNAL QL495.I535 1986).

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Washington, D.C. : U.S. Dept. of Agriculture, 1937. Caption title.~ Contribution from Bureau of Entomology and Plant Quarantine. 81 p. ; 23 cm. Bibliography: p. 63-74. (NAL Call No.: DNAL 1 Ag84M no.258).

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An illustrated and annotated key to the cotton spiders of Arkansas.
JESCEP. Heiss, J.S. Harris, V.E.; Phillips, J.R. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. Jan 1988. v. 23 (1). p. 1-35. ill. Includes references. (NAL Call No.: DNAL QL461.G4).

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Population dynamics and within-plant distribution of the western flower thrips (Thysanoptera: thripidae), an early-season predator of spider mites infesting cotton.
EVETEX. Pickett, C.H. Wilson, L.T.; Gonzalez, D. College Park, Md. : Entomological Society of America. Abstract: The season-long population dynamics and within-plant distribution of the thrips *Frankliniella occidentalis* (Pergande) were examined. Thrips density was highly variable and peaked in midseason. Fluctuations in density in combination with changing age structure of the population suggest that migration plays an important role in the population dynamics of thrips. The seasonal peak in thrips density corresponded with the period of peak bloom. Adult thrips were strongly attracted to cotton flowers, which suggests that the migratory nature of thrips is in part caused by their preference for flower structures. Within-plant distribution of thrips on mainstem node leaves is broad and largely overlaps that of spider mites. *Tetranychus* spp., a prey of thrips in early-season cotton. The combined mainstem and branch node distribution of thrips shows that during most of the season, thrips are centrally located in the plant canopy. Environmental entomology. June 1988. v. 17 (3). p. 551-559. Includes references. (NAL Call No.: DNAL QL461.E532).

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Waldie, A.H. Gillum, M.N.; Wilkes, J.M. Washington, D.C.? : The Department. Abstract: Physical properties relating to permeability and porosity of a material in a conveying fluid medium are determined in a device designed to measure the pressure differential between a first stream of fluid applied directly to the material in the medium and a second stream applied to a referencing plenum containing only the medium. The system is sensitive to the component of flow resistant imparted by the material itself without measuring the pressure drop across the entire thickness of material. The invention finds particular application in determining the permeability of cotton at various stages of the ginning operation for the ultimate purpose of monitoring and controlling the moisture content. United States Department of Agriculture patents. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Mar 17, 1987. (4,649,738). 1 p. ill. Includes references. (NAL Call No.: DNAL aT223.V4A4).

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1681

Projected costs and returns cotton, soybeans, corn, milo and wheat-- Red River and central areas-- Louisiana, 1986.

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Flour-mill insects and their control /by G.A.
Dean, R.T. Cotton, and G.B. Wagner.
Dean, G. A. 1873-. Cotton, R. T.; Wagner,
George B., 1906-. Washington, D.C. : U.S. Dept.
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Plant Quarantine.". 34 p. : ill. ; 23 cm.
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Aflatoxin in seed cotton during short-term trailer storage / by Anselm C. Griffin and Charles A. Collins .

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BCOPB. Gannaway, J.R. Dever, J.K. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 110. Includes references. (NAL Call No.: DNAL SB249.N6).

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Field-degradation effects on cotton fiber and yarn quality (by James M. Williams, Jr.). -.

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BCOPB. Rayburn, S.T. Jr. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 165-166. Includes references. (NAL Call No.: DNAL SB249.N6).

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AGRYA. Cherry, J.P. Leffler, H.R. Madison, Wis., Soil Science Society of America. Agronomy. A series of monographs - American Society of Agronomy. Literature review. 1984. (24). p. 511-569. ill. Includes references. (NAL Call No.: DNAL 4 AM392).

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AGJQAT. Armbrust, D.V. Madison, Wis. : American Society of Agronomy. Agronomy journal. Nov/Dec 1986. v. 78 (6). p. 1078-1081. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Sherman, S. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 50-53. (NAL Call No.: DNAL SB245.B42).

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ESTHAG. Cohen, M.L. Steinmetz, W.D. Washington, D.C. : American Chemical Society. Environmental science & technology. May 1986. v. 20 (5). p. 521-523. Includes 34 references. (NAL Call No.: DNAL TD420.A1E5).

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Growth of cotton under chronic ozone stress at two levels of soil moisture.

JEVQAA. Miller, J.E. Patterson, R.P.; Heagle, A.S.; Pursley, W.A.; Heck, W.W. Madison, Wis. : American Society of Agronomy. Recent field research has shown that ambient concentrations of ozone (O₃) have the potential to reduce yield of a number of economically important crop species. Soil water levels have been shown sometimes to modify the extent of the reduction. The primary emphasis of most of these studies has been on the plant component that represents economic yield. Less emphasis has been placed on characterization of the effects of O₃ on growth of the total plant that ultimately determines yield. In this study, we measured season-long growth of field-grown cotton (*Gossypium hirsutum* L. 'McNair-235') that was exposed to a range of O₃ concentrations of two levels of soil moisture, well-watered (WW) and water-stressed (WS). The cotton was exposed for 12 h d⁻¹ throughout the growing season in open-top chambers to five O₃ concentrations that ranged from 0.020 to 0.074 microliter L⁻¹ (seasonal mean 12 h d⁻¹ concentration). Three cotton plants were sampled from each chamber at 2- to 3- wk intervals during the season, and biomass and growth measurements were made on all major plant parts. Ozone stress reduced leaf and root biomass in particular, while stem tissues were less affected. Partitioning of biomass among plant tissues was affected by O₃ at certain times during the season. Leaf area duration (LAD) was reduced by O₃ in both WW and WS treatments, but changes in the yield/LAD ratio and net assimilation rate indicated that reduced efficiency of leaves also was responsible for yield reductions in the WW plots. Water stress caused fewer significant effects overall than did O₃ although it appeared to reduce the growth of most plant parts, especially at low O₃ concentrations. There were no significant O₃ x water interactions for the growth variables measured. Journal of environmental quality. Oct/Dec 1988. v. 17 (4). p. 635-643. Includes references. (NAL Call No.: DNAL QH540.J6).

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Injury and yield response of cotton to chronic doses of ozone and soil moisture deficit.

JEVQAA. Heagle, A.S. Miller, J.E.; Heck, W.W.; Patterson, R.P. Madison, Wis. : American Society of Agronomy. Plant response to ozone (O₃) is known to be modified by soil moisture deficit, which occurs in varying degrees during most growing seasons. Thus, we examined the response of cotton (*Gossypium hirsutum* L. 'McNair 235') to different levels of seasonal stress by O₃ when grown at two soil moisture levels. The cotton was exposed for 12 h d⁻¹ in open top field chambers to five O₃ doses (seasonal 12 h d⁻¹ means from 0.020 to 0.074 microliter L⁻¹) under well-watered (WW) conditions or under water-stressed (WS) conditions with periodic cycles of low soil moisture. Exposures began when the fifth leaves were expanding and continued for 124 d when

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most leaves were chlorotic or had abscised. Ozone caused significant yield loss in WW plots but not in WS plots. Based on estimates from polynomial regression analysis, ambient O₃ (seasonal 12 h d⁻¹ mean of 0.044 microliter L⁻¹) caused a yield decrease of 19% in the WW plots compared to the O₃ level in our charcoal-filtered air plots (seasonal 12 h d⁻¹ mean of 0.004 microliter L⁻¹). The comparable estimate for data from the WS plot was 7%, but this regression was not statistically significant. Results indicate that soil moisture deficit can decrease the impact of O₃ on cotton yield. Journal of environmental quality. Oct/Dec 1988. v. 17 (4). p. 627-635. Includes references. (NAL Call No.: DNAL QH540.J6).

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Injury and yield response of cotton to chronic doses of ozone and sulfur dioxide.
JEVQAA. Heagle, A.S. Heck, W.W.; Lesser, V.M.; Rawlings, J.O.; Rawlings, J.O.; Mowry, F.L. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1986. v. 15 (4). p. 375-382. Includes references. (NAL Call No.: DNAL QH540.J6).

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Permethrin washoff from cotton plants by simulated rainfall.
JEVQAA. Willis, G.H. McDowell, L.L.; Smith, S.; Southwick, L.M. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Apr/June 1986. v. 15 (2). p. 116-120. Includes references. (NAL Call No.: DNAL QH540.J6).

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TAAEA. Willis, G.H. McDowell, L.L.; Smith, S.; Southwick, L.M. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1988. v. 31 (1). p. 86-90. Includes references. (NAL Call No.: DNAL 290.9 AM32T).

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WEESA6. Rogers, C.B. Talbert, R.E.; Mattice, J.D.; Lavy, T.L.; Frans, R.E. Champaign, Ill. : Weed Science Society of America. Weed science. Jan 1986. v. 34 (1). p. 122-130. ill. Includes 26 references. (NAL Call No.: DNAL 79.8 W41).

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JEVQAA. Hofmann, W.C. Karpiscak, M.M.; Bartels, P.G. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1987. v. 16 (3). p. 267-272. Includes references. (NAL Call No.: DNAL QH540.J6).

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BCOPB. Tabashnik, B.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 215-218. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

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A computer based pest management aid for San Joaquin Valley cotton.

BCOPB. Plant, R.C. Wilson, L.T. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 169-172. ill. Includes 7 references. (NAL Call No.: DNAL SB249.N6).

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BCOPB. Stone, N.D. Frisbie, R.E.; Richardson, J.W.; Sansone, C. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 194-197. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

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Developmental behavior of four upland cotton (G. hirsutum L.) cultivars.

BCOPB. Rimon, D. Smith, C.W. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 111-119. Includes references. (NAL Call No.: DNAL SB249.N6).

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Dynamics and impact of cotton fruit abscission and survival.

EVETEX. Stewart, S.D. Sterling, W.L. College Park, Md. : Entomological Society of America. Cotton fruit from a given location on the plant were assigned to cohorts. The quantity and causes of fruit abscission in each cohort were monitored in three management systems. The proportion of fruit abscission caused by insect pests was largest in the early-season cohorts, whereas physical stresses caused increasingly more fruit abortion in later cohorts. Plants tolerate insect-induced fruit abortion by retaining more of the surviving fruit within the same cohort. When a cohort was severely injured, fruit survivorship was increased in subsequent cohorts to compensate for the loss. Fruit production, abscission, and retention were normally distributed, and the patterns were consistent enough to suggest that a cohort technique may be a useful modelling approach. Environmental entomology. Aug 1988. v. 17 (4). p. 629-635. Includes references. (NAL Call No.: DNAL QL461.E532).

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Parvin, D.W. Jr. Smith, J.W. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. Paper presented at the "Beltwide Cotton Production Conference," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 20-28. (NAL Call No.: DNAL SB245.B42).

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BCOPB. Sterling, W. Hartstack, A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 374-379. ill. Includes references. (NAL Call No.: DNAL SB249.N6).

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Effect of nitrogen fertilizer rates and defoliation timing on cotton yield and quality--a GOSSYM-COMAX comparison.

BCOPB. Burmester, C.H. Adams, J.F.; Chapman, L.J. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 509-510. (NAL Call No.: DNAL SB249.N6).

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The effects of disruption on cotton insect spatial patterns.

BCOPB. Young, J.H. Willson, L.J.; Stark, J.A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1987. p. 281-282. Includes references. (NAL Call No.: DNAL SB249.N6).

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Estimating fruit value with TEXTCIM.

BCOPB. Hartstack, A.W. Sterling, W.L. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Conference held on January 3-8, 1988, New Orleans, Louisiana. 1988. p. 370-374. Includes references. (NAL Call No.: DNAL SB249.N6).

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Factors influencing pyrethroid toxicity in pink bollworm (Lepidoptera: Gelechiidae): implications for resistance management.

JEENAI. Schouest, L.P. Jr. Miller, T.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 431-436. Includes references. (NAL Call No.: DNAL 421 J822).

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The GOSSYM model: its use in cotton insect control.

BCOPB. Fye, R.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 166-167. Includes 3 references. (NAL Call No.: DNAL SB249.N6).

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